=> d his

=>

(FILE 'HOME' ENTERED AT 14:05:18 ON 10 JAN 2005)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 14:05:42 ON 10 JAN 2005 L1 73150 S MYCOPLASMA L263554 S NEURAMINIDASE? OR SIALIDASE? L3 224 S L1 AND L2 L4 139 S (INFECTION? OR DISEASE?) AND L3 L5 2620647 S CANCER OR "HODGKIN'S" AND L4 87 DUP REM L4 (52 DUPLICATES REMOVED) L6 L7 652 S (CANCER OR "HODGKIN'S") AND L6 E HIGUCHI M/AU 3027 S E3 L8 E SCHENKMAN S/AU L9 344 S E3 L10 3371 S L8 OR L9 L112 S L6 AND L10 8 S L6 AND (PREVENT OR INHIBIT) L12

attenuation, and treatment of bacterial infections that may

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1652MXM

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 3 SEP 01 New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!

NEWS 4 OCT 28 KOREAPAT now available on STN

NEWS 5 NOV 30 PHAR reloaded with additional data

NEWS 6 DEC 01 LISA now available on STN

NEWS 7 DEC 09 12 databases to be removed from STN on December 31, 2004

NEWS 8 DEC 15 MEDLINE update schedule for December 2004

NEWS 9 DEC 17 ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected

NEWS 10 DEC 17 COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected

NEWS 11 DEC 17 SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected

NEWS 12 DEC 17 CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected

NEWS 13 DEC 17 THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB

NEWS 14 DEC 30 EPFULL: New patent full text database to be available on STN

NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED

NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and February 2005

NEWS EXPRESS OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 14:05:18 ON 10 JAN 2005

=> file medline embase biosis biotechds scisearch hcaplus ntis lifesci
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION

FILE 'MEDLINE' ENTERED AT 14:05:42 ON 10 JAN 2005

FILE 'EMBASE' ENTERED AT 14:05:42 ON 10 JAN 2005 COPYRIGHT (C) 2005 Elsevier Inc. All rights reserved.

FILE 'BIOSIS' ENTERED AT 14:05:42 ON 10 JAN 2005 Copyright (c) 2005 The Thomson Corporation.

FILE 'BIOTECHDS' ENTERED AT 14:05:42 ON 10 JAN 2005 COPYRIGHT (C) 2005 THE THOMSON CORPORATION

FILE 'SCISEARCH' ENTERED AT 14:05:42 ON 10 JAN 2005 Copyright (c) 2005 The Thomson Corporation.

FILE 'HCAPLUS' ENTERED AT 14:05:42 ON 10 JAN 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'NTIS' ENTERED AT 14:05:42 ON 10 JAN 2005 Compiled and distributed by the NTIS, U.S. Department of Commerce. It contains copyrighted material. All rights reserved. (2005)

FILE 'LIFESCI' ENTERED AT 14:05:42 ON 10 JAN 2005 COPYRIGHT (C) 2005 Cambridge Scientific Abstracts (CSA)

=> s mycoplasma

L1 73150 MYCOPLASMA

=> s neuraminidase? or sialidase?

L2 63554 NEURAMINIDASE? OR SIALIDASE?

=> s l1 and l2

L3 224 L1 AND L2

=> s (infection? or disease?) and 13
3 FILES SEARCHED...

L4 139 (INFECTION? OR DISEASE?) AND L3

=> s cancer or "Hodgkin's" and 14

L5 2620647 CANCER OR "HODGKIN'S" AND L4

=> dup rem 14

PROCESSING COMPLETED FOR L4

L6 87 DUP REM L4 (52 DUPLICATES REMOVED)

=> s (cancer or "Hodgkin's") and 16

L7 652 (CANCER OR "HODGKIN'S") AND L6

=> d 16 1-87 ibib ab

L6 ANSWER 1 OF 87 MEDLINE on STN DUPLICATE 1

ACCESSION NUMBER: 2004276433 MEDLINE DOCUMENT NUMBER: PubMed ID: 15175306

TITLE: Spreading factors of Mycoplasma alligatoris, a

flesh-eating mycoplasma.

AUTHOR: Brown D R; Zacher L A; Farmerie W G

CORPORATE SOURCE: Department of Pathobiology, College of Veterinary Medicine,

University of Florida, Gainesville, FL 32611-0880, USA...

brownd@mail.vetmed.ufl.edu

CONTRACT NUMBER: 1R15HG02389-01A1 (NHGRI)

SOURCE: Journal of bacteriology, (2004 Jun) 186 (12) 3922-7.

Journal code: 2985120R. ISSN: 0021-9193.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200407

ENTRY DATE: Entered STN: 20040604

Last Updated on STN: 20040708 Entered Medline: 20040707

AB Mycoplasma alligatoris causes lethal invasive disease

of alligators and caimans. A homolog of the nagH gene, encoding a hyaluronidase secreted by Clostridium perfringens, and a C. perfringens hyaluronidase nagI or nagK pseudogene were discovered in the M.

alligatoris genome. The nagH gene was detected by PCR in the closest

relative of M. alligatoris, Mycoplasma crocodyli, but not in 40

other species representing the Mycoplasma hominis,

Mycoplasma pneumoniae, and Spiroplasma phylogenetic clusters. The hyaluronidase activity in the cellular fraction of M. alligatoris and M. crocodyli SP4 broth cultures was equivalent to 10(-16) U of Streptomyces hyalurolyticus hyaluronidase CFU(-1). Negligible activity was present in the cell-free supernatant fraction. No chondroitinase activity was detected. There is also a novel homolog of the nanI gene, which encodes a sialidase secreted by C. perfringens, in the M. alligatoris genome. The signature YRIP and SXDXGXTW motifs and catalytic residues of the clostridial sialidase are conserved in the mycoplasmal gene, but the leader sequence necessary for its secretion by C. perfringens is absent. The gene was not detected by PCR in any other mycoplasma

. Potent cell-associated sialidase activity was present in M. alligatoris colonies on agar but not in the cell-free supernatants of broth cultures or in M. crocodyli. The presence of hyaluronidase and sialidase in M. alligatoris is consistent with the rapid invasiveness and necrotizing effects of this organism, and the lack of sialidase in M. crocodyli is consistent with its comparatively attenuated virulence. This genetic and biochemical evidence suggests that the spreading factors hyaluronidase and sialidase, a combination unprecedented in mycoplasmas, are the basis of the virulence of M. alligatoris.

L6 ANSWER 2 OF 87 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2004515771 EMBASE

TITLE: Respiratory viral infections in high-risk

patients.

AUTHOR: Greenberg S.B.

CORPORATE SOURCE: Dr. S.B. Greenberg, Baylor College of Medicine, Houston,

TX, United States

SOURCE: American Journal of Respiratory and Critical Care Medicine,

(1 Dec 2004) 170/11 (1142-1143).

Refs: 17

ISSN: 1073-449X CODEN: AJCMED

COUNTRY: United States
DOCUMENT TYPE: Journal; Editorial
FILE SEGMENT: 004 Microbiology

O15 Chest Diseases, Thoracic Surgery and Tuberculosis

026 Immunology, Serology and Transplantation

037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE: English

L6 ANSWER 3 OF 87 MEDLINE on STN DUPLICATE 2

ACCESSION NUMBER: 2004419768 IN-PROCESS

DOCUMENT NUMBER: PubMed ID: 15325005

TITLE: Trypanosoma cruzi trans-sialidase as a new

therapeutic tool in the treatment of chronic inflammatory

diseases: possible action against

mycoplasma and chlamydia.

AUTHOR: de Lourdes Higuchi Maria

Pathology Laboratory, Heart Institute (InCor) of Clinical CORPORATE SOURCE:

Hospital, School of Medicine of Sao Paulo University, Av. Dr Eneas de Carvalho Aquiar 44, 05403-000 Sao Paulo, SP,

Brazil.. anplourdes@incor.usp.br

Medical hypotheses, (2004) 63 (4) 616-23. SOURCE:

Journal code: 7505668. ISSN: 0306-9877.

Scotland: United Kingdom PUB. COUNTRY:

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

English LANGUAGE:

FILE SEGMENT: IN-PROCESS; NONINDEXED; Priority Journals

ENTRY DATE: Entered STN: 20040825

Last Updated on STN: 20041219

The present paper proposes a new therapy using Trypanosoma cruzi trans-AB sialidase to treat diseases with unclear pathogenesis that present in common chronic inflammation and fibrosis. This hypothesis is based on recent findings that co-infection with mycoplasma and chlamydia is present in many of these diseases and that this enzyme was capable to eliminate or decrease the co-infection from the host. We identified that mycoplasmas and chlamydias are present in atherosclerosis, aortic valve stenosis, dilated cardiomyopathy, chronic chagasic myocarditis and We hypothetized that mycoplasmal infection may induce immunodepression in the host, favoring proliferation of pre-existent chlamydial infection and that elimination of mycoplasma would lead to improvement of the immune system resistance and the control of chlamydial proliferation. Mycoplasma has a particular parasitic relationship with host cells, involving strong adherence of their membranes, making it extremely difficult to eradicate mycoplasmal infection from the host. A new therapeutic approach is suggested using one or more agents that prevent or inhibit the adherence of mycoplasma to host cell membranes by removing sialic acid residues and preventing oxidation of the cells. The use of a neuraminidase enzyme, particularly the T. cruzi trans-sialidase enzyme, associated with treatment using anti-oxidating agents is proposed. Preliminary experimental animal and laboratory tests showed good results. The proposal that trans-sialidase from T. cruzi is efficient in combating co-infection of mycoplasma and chlamydia is based, at least in part, on the observation that chagasic patients suffering from T. cruzi infection present less mycoplasma and chlamydia infection in their tissues. Also, a lower incidence of the diseases above described to be related to mycoplasma infection is observed in chagasic patients. It is also hypothesized that co-infection with mycoplasma and chlamydia may induce oxidation of the host cells. Anti-oxidants such as those present in plant extracts may also be used in the treatment. Other diseases such as chronic hepatitis, glomerulonephritis, Multiple Sclerosis, Alzheimer's Syndrome and idiopathic encephalitis are other examples of chronic diseases where mycoplasma and chlamydia might be present, as they have the characteristics of unknown etiology, persistent chronic inflammation and fibrosis.

ANSWER 4 OF 87 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN L6 DUPLICATE 3

ACCESSION NUMBER: 2003-27952 BIOTECHDS

Copyright 2004 Elsevier Ltd.

TITLE: Composition useful for treating mycoplasma

infection comprises an agent that prevents

proliferation of mycoplasma or associated microbes;

native or recombinant enzyme treatment for disease

therapy

AUTHOR: HIGUCHI M D L
PATENT ASSIGNEE: HIGUCHI M D L

PATENT INFO: WO 2003082324 9 Oct 2003 APPLICATION INFO: WO 2003-BR49 28 Mar 2003

PRIORITY INFO: BR 2002-1010 28 Mar 2002; BR 2002-1010 28 Mar 2002

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2003-803968 [75]

AB DERWENT ABSTRACT:

NOVELTY - A composition comprises an agent (A) that prevents or inhibits the proliferation of at least one of Mycoplasma or microbes associated with Mycoplasma, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for the use of an agent (A) for the manufacture of a medicament for treating a disorder defined by increased microbes proliferation associated with inflammation, fibrosis, calcification, ossification, cellular disarray and/or fragmentation of the extra-cellular matrix of the adjacent tissue.

ACTIVITY - Antimicrobial; Antibacterial; Antiinflammatory; Nephrotropic; Hepatotropic; Endocrine-Gen.; Cytostatic; Osteopathic; Antiarthritic; Antirheumatic; Gastrointestinal-Gen.; Cerebroprotective; Neuroprotective; Antiallergic; Vasotropic; Antiulcer; Respiratory-Gen.; Antiasthmatic; Virucide; Anti-HIV; Dermatological.

MECHANISM OF ACTION - Mycoplasma proliferation inhibitor;
Mycoplasma-associated microbes proliferation inhibitor; Host cell
proliferation inhibitor; Microbial proliferation inhibitor. Two rats
presenting skin ulcer and tail injury due to the co-infection
of Lycoplasm and Spirochetes were treated. One received 0.5 ml/animal TSN
(complete active native trans-sialidase of Trypanosoma cruzi),
every day for 10 days, and the other received TSC (active transsialidase substance catalytic portion, produced by a recombinant
bacteria containing the Plasmodium (pTSIII), ATCC with PTA - 3483) for 8
days. The mice were killed respectively with 14 and 10 days. The skin
ulcers already showed initial healing after 4 days of treatment, with
complete healing in 14 days, with the formation of a new coat. There was
a stop in the loss of the tail and the histological exam demonstrated
regression of the lesion and severe decrease of all infectious agents.

USE - For treating or preventing Mycoplasma infection including disorders defined by co-infection and fusion of Mycoplasma and/or at least a second microbe to a host cell or a cell fragment, causing inflammation and at least one of the tissue alterations due to fibrosis, calcification, ossification, cellular disarray or fragmentation of the extra-cellular matrix of the subjacent tissue (e.g. aortic valve stenosis with calcification, idiopathic glomerulopathy, glomerulopathy with inflammation, Lyme's disease, co-infection with chlamydia, spirochete and/or archaea); and for the manufacture of a medicament for treating a disorder defined by increased microbes proliferation (e.g. calcification of the cardiac valves, glomerulonephritis, fibrosing chronic hepatopathy, baldness, and malignant neoplasia) (claimed). Also useful for the treatment of skin ulcer, osteoarthritis, inflammatory bowel disease, chronic cerebral sclerosis disease, lymphocytic chronic arteritis, non-purulent inflammatory osteoarthrtis, multiple sclerosis, lymphocytic inflammatory vascular disease, optionally granulomatous and with non-stabilized etiology (e.g. Takayasu's disease, giant cell arteritis, Wegener's granulomatosis, thromboangiitis obliterans), rheumatoid arthritis, ulcerative colitis, Whipple's disease, gastritis, inflammatory diseases of the respiratory tract of not well established etiology (e.g. adult respiratory distress syndrome, Goodpasture's syndrome, asthma, chronic fibrosing hepatopathy, emphysema; and for the treatment or prevention of disorders associated with mycoplasma infection, co-infection and/or fusion of

mycoplasma with other microbes (e.g. virus such as human immunodeficiency virus, hepatitis virus, cytomegalovirus, human papillomavirus, Epstein-Barr virus; or bacteria).

ADMINISTRATION - The trans-sialidase enzyme is administered in a dosage of (4 mg/day) in a period of at least 2, or a culture of Trypanosoma cruzi with a mean trans-sialidase activity of 140 U/day is administered every other day for one week (1 - 8 weeks). The administration is intravenous, intraperitoneal, intrathecal, oral, by inhalation, subcutaneous or intramuscular.

ADVANTAGE - The composition inhibits or prevents the adhesion and/or infection of Mycoplasma and the microorganisms associated with them by at least 10%. The antibiotic protein such as neuraminidase enzyme or the trans-sialidase enzyme of Trypanosoma cruzi removes the sialic acid residues and inhibits or prevents the attachment of Mycoplasma to host cells.

EXAMPLE - No relevant example given. (24 pages)

ANSWER 5 OF 87 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN ACCESSION NUMBER: 2004-00309 BIOTECHDS

TITLE:

Use of an agent that prevents or inhibits Mycoplasma infection, for manufacturing a medicament for

treating or preventing a disorder associated with increased

cell proliferation, e.g. atherosclerotic vascular

disease or malignancy;

recombinant Trypanosoma cruzi protein application in

infection, tumor and vascular disease

therapy

AUTHOR: HIGUCHI M D L; SCHENKMAN S PATENT ASSIGNEE: HIGUCHI M D L; SCHENKMAN S PATENT INFO: US 2003124109 3 Jul 2003 APPLICATION INFO: US 2002-86913 1 Mar 2002

PRIORITY INFO: BR 2001-2648 3 Jul 2001; BR 2000-2989 3 Jul 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2003-810968 [76]

AB DERWENT ABSTRACT:

NOVELTY - Use of an agent that prevents or inhibits Mycoplasma infection for manufacturing a medicament for treating a disorder associated with increased cell proliferation.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a composition for treating or preventing Mycoplasma infection in a subject suffering from a disorder associated with increased cell proliferation or a co-infection with mycoplasma and a second microbe, comprising an agent that prevents or inhibits sialic acid-mediated attachment of mycoplasma to cells of the subject.

BIOTECHNOLOGY - Preferred Composition: The agent is an antibiotic or an enzyme having an activity consisting of neuraminidase and/or trans-sialidase activity. The enzyme is derived from a Trypanosoma cruzi microorganism, where the enzyme is a native or a recombinant enzyme. The enzyme has a fully defined sequence of 669 amino acids given in the specification. A vector containing the DNA insert having a fully defined sequence of 2010 bp given in the specification produces the enzyme.

ACTIVITY - Antibacterial; Antiarteriosclerotic; Cytostatic; Anti-HIV. A 64-year-old female patient with a palpable abdominal mass and a tumoral mass in the rectum was administered 50 ml of native transsialidase (TSN) intraperitoneally on alternate days for a period of 14 days. On day 23, with mycoplasmas confirmed in the bone marrow, erythromycin (500 mg/day) was given for a further 20 days. Clinical improvement and normalization of blood leukocytes was seen after 2 days. Considering the important clinical improvement and reduction in abdominal mass, a second session of TSN was administered. The patient demonstrated improvement in general clinical status. Tomography detected

a reduction in tumoral mass. Results showed that trans-sialidase is effective as a drug in the treatment of neoplasia, removing mycoplasmas from the neoplastic cells leading to their apoptosis.

MECHANISM OF ACTION - Neuraminidase; Trans-

sialidase.

USE - The composition or the agent that prevents or inhibits mycoplasma infection is useful for manufacturing a medicament for treating or preventing a disorder associated with increased cell proliferation, e.g. atherosclerotic vascular disease or malignant disease, or a disease associated with co-infection with mycoplasma and a second microbe such as human immunodeficiency virus or a Chlamydia microbe (all claimed).

ADMINISTRATION - The amount of the enzyme administered is about 106-1013 units per day. Administration may be intravenous, intraperitoneal, intrathecal, oral, by inhalation, subcutaneous, or intramuscular. (32 pages)

L6 ANSWER 6 OF 87 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2003:261602 HCAPLUS

DOCUMENT NUMBER:

138:265609

TITLE:

Use of neuraminidase inhibitors to prevent

flu-associated bacterial infections

INVENTOR(S):

McCullers, Jonathan A.

PATENT ASSIGNEE(S):

St. Jude Children's Research Hospital, Inc., USA

SOURCE:

PCT Int. Appl., 40 pp.

DOCUMENT TYPE:

Patent

CODEN: PIXXD2

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.					KIND DATE			2	APPL	ICAT		DATE						
	WO 2003026567				A2 20030403			WO 2002-US29417						20020917					
	WO	WO 2003026567			A3 20040			0826											
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	ВG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
•			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,	
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	
			PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	
			UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZM,	ZW								
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZM,	ZW,	AM,	ΑZ,	BY,	
			KG,	KZ,	MD,	RU,	TJ,	TM,	ΑT,	ΒE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
			FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	SK,	TR,	BF,	ВJ,	CF,	
			CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG				
	US	2004	2488:	25		A1	20041209			US 2004-809127						20040325			
PRIO	RIT	Y APP	LN.	INFO	.:					US 2001-325615P					:	P 20010927			
												002-1				A1 2	0020	917	
3.5	- m1-				•	3		-		_									

AB The invention provides a novel use for neuraminidase inhibitors in chemoprophylactic and treatment methods for the prevention, attenuation, and treatment of bacterial infections that may occur in association with, or as a sequelae of, viral influenza. The prophylactic methods of the invention are particularly suitable for the prevention of secondary bacterial infections, such as, but not limited to, infections of the lower respiratory tract (e.g., pneumonia), middle ear infections (e.g., otitis media), and bacterial sinusitis. The treatment methods are suitable for use in protocols designed to attenuate or treat bacterial infections that occur concurrent with, or as a sequelae of, the flu.

L6 ANSWER 7 OF 87 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2003:76631 HCAPLUS

DOCUMENT NUMBER:

138:135831

TITLE: Antibody heteropolymer complexes preparation and uses

thereof

INVENTOR(S): Taylor, Ronald P.; Craig, Maria L.; Hahn, Chang S.

University of Virginia Patent Foundation, USA PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 79 pp.

CODEN: PIXXD2 DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

```
PATENT NO.
                            KIND DATE
                                                   APPLICATION NO.
                                                                                DATE
      -----
                                      -------
                             ----
                                                    -----
      WO 2003007971
                                      20030130
                                                    WO 2002-US23141
                              A1
                                                                                20020717
      WO 2003007971
                              C2
                                      20030410
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
               CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
               GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
               LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
               PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
          UA, UG, US, UZ, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
               KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
      EP 1416945
                              A1
                                      20040512 EP 2002-770383
                                                                                20020717
              AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, "IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
PRIORITY APPLN. INFO.:
                                                    US 2001-305989P
                                                                          P 20010717
                                                                            W 20020717
                                                    WO 2002-US23141
```

The improved heteropolymer complex of the present invention comprises a AB first monoclonal antibody specific for a C3b-like receptor [complement receptor (CR1) or CD35 in primates and factor H in other mammals, e.g., dog, mouse, rat, pig, rabbit] site chemical crosslinked (covalently linked) to a second monoclonal antibody, in which the isotype of at least the second monoclonal antibody is the isotype having the highest affinity for the Fc receptor, e.g., in humans, IgG1 or IgG3. The invention also relates to methods for immune clearance of an antigen in a mammal via the C3b-like receptor comprising administering to said mammal an improved heteropolymer complex of the invention. Also presented are methods for treating or preventing viral infection or microbial infection, septic shock, or cancer, in a mammal comprising administering to said mammal an improved heteropolymer complex of the invention. The present invention further relates to pharmaceutical compns. for the treatment or prevention of the above diseases comprising an improved heteropolymer complex of the invention.

REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 8 OF 87 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2003235025 EMBASE

TITLE:

Neutrophil aggregates in a 13-year-old girl: A rare

hematological phenomenon.

AUTHOR:

Claviez A.; Horst H.-A.; Santer R.; Suttorp M.

CORPORATE SOURCE: A. Claviez, Department of Pediatrics, University of Kiel,

Schwanenweg 20, 24105 Kiel, Germany.

SOURCE:

a.claviez@pediatrics.uni-kiel.de Annals of Hematology, (1 Apr 2003) 82/4 (251-253).

Refs: 13

ISSN: 0939-5555 CODEN: ANHEE8

COUNTRY:

Germany DOCUMENT TYPE:

Journal; Article FILE SEGMENT: 004 Microbiology 010 Obstetrics and Gynecology

O15 Chest Diseases, Thoracic Surgery and Tuberculosis

025 Hematology

037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

AB Aggregation of neutrophils in peripheral blood smears is a very rare, mostly self-limiting phenomenon and may result in pseudoleukopenia. In the majority of cases, malignancies, infections, or hepatic disorders have been identified as the underlying condition. Although the exact reason for neutrophil aggregation in vitro has not been clarified, its relation to the use of ethylenediamine-tetraacetate acid as an anticoagulant has been described in adults. We report here on the occurrence of transient neutrophil aggregation in a 13-year-old girl with Herpes simplex and concomitant Mycoplasma pneumoniae infection.

L6 ANSWER 9 OF 87 MEDLINE on STN DUPLICATE 4

ACCESSION NUMBER: 2004022687 MEDLINE DOCUMENT NUMBER: PubMed ID: 14720004

TITLE: Treatment of community-acquired lower respiratory tract

infections during pregnancy.

AUTHOR: Lim Wei Shen; Macfarlane John T; Colthorpe Charlotte L

CORPORATE SOURCE: Respiratory Infection Research Group, Respiratory Medicine,

Nottingham City Hospital, Nottingham, UK..

wlim2@ncht.trents.nhs.uk

SOURCE: Am J Respir Med, (2003) 2 (3) 221-33. Ref: 116

Journal code: 101132974. ISSN: 1175-6365.

PUB. COUNTRY: New Zealand

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200402

ENTRY DATE: Entered STN: 20040115

Last Updated on STN: 20040224 Entered Medline: 20040223

AB The incidence of lower respiratory tract infection (LRTI) in women of child-bearing age is approximately 64 per 1000 population. spectrum of illness ranges from acute bronchitis, which is very common, through influenza virus infection and exacerbations of underlying lung disease, to pneumonia, which, fortunately is uncommon (<1.5% LRTI), but can be severe. Acute bronchitis is generally mild, self-limiting and usually does not require antibacterial therapy. Influenza virus infection in pregnant women has been recently related to increased hospitalization for acute cardiorespiratory conditions. At present, the safety of the newer neuraminidase inhibitors for the treatment of influenza virus infection has not been established in pregnancy and they are not routinely recommended. In influenza virus infection complicated by pneumonia, antibacterial agents active against Staphylococcus aureus and Streptococcus pneumoniae superinfection should be used. There are few data on infective complications of asthma or COPD in pregnancy. The latter is rare, as patients with COPD are usually male and aged over 45 years. Management is the same as for nonpregnant patients. The incidence and mortality of pneumonia in pregnancy is similar to that in nonpregnant patients. Infants born to pregnant patients with pneumonia have been found to be born earlier and weigh less than controls. Risk factors for the development of pneumonia include anemia, asthma and use of antepartum corticosteroids and tocolytic agents. Based on the few available studies, the main pathogens causing pneumonia are S. pneumoniae, Haemophilus influenzae, Mycoplasma pneumoniae and viruses. Beta-Lactam and macrolide antibiotics therefore remain the antibiotics of choice in terms

of both pathogen coverage and safety in pregnancy. In HIV-infected pregnant patients, recurrent bacterial pneumonia, but not Pneumocystis carinii pneumonia (PCP), is more common than in nonpregnant patients. Trimethoprim/sulfamethoxazole (cotrimoxazole) has not definitely been associated with adverse clinical outcomes despite theoretical risks. Currently it is still the treatment of choice in PCP, where mortality remains high. In conclusion, there are few data specifically related to pregnant women with different types of LRTI. Where data are available, no significant differences compared with nonpregnant patients have been identified. In considering the use of any therapeutic agent or investigation in pregnant patients with LRTI, safety aspects must be carefully weighed against potential benefit. Otherwise, management strategies should not differ from those for nonpregnant patients. Further research in this area is warranted.

L6 ANSWER 10 OF 87 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2003107935 EMBASE

TITLE: Travel epidemiology: The Saudi perspective.

AUTHOR: Memish Z.A.; Venkatesh S.; Ahmed Q.A.

CORPORATE SOURCE: Z.A. Memish, Department of Medicine, King Abdulaziz Medical

City, King Fahad National Guard Hospital, P.O. Box 22490,

Riyadh 11426, Saudi Arabia. memish@ngha.med.sa

SOURCE: International Journal of Antimicrobial Agents, (1 Feb 2003)

21/2 (96-101).

Refs: 38

ISSN: 0924-8579 CODEN: IAAGEA

PUBLISHER IDENT.: S 0924-8579(02)00364-3

COUNTRY:

Netherlands
Journal; Article

DOCUMENT TYPE: FILE SEGMENT:

004 Microbiology

008 Neurology and Neurosurgery

017 Public Health, Social Medicine and Epidemiology

037 Drug Literature Index

048 Gastroenterology

LANGUAGE: English SUMMARY LANGUAGE: English

The Kingdom of Saudi Arabia occupies four-fifths of the Arabian Peninsula, with a land area of 2 million square kilometres. Saudi Arabia holds a unique position in the Islamic world, as the custodian of the two holiest places of Islam, in Mecca and Medina. Annually, some 2 million Muslims from over 140 countries embark on Hajj. This extraordinary en masse migration is a unique forum for the study of travel epidemiology since the Hajj carries various health risks, both communicable and non-communicable, often on a colossal scale. Non-communicable hazards of the Hajj include stampede and motor vehicle trauma, fire-related burn injuries and accidental hand injury during animal slaughter. Communicable hazards in the form of outbreaks of multiple infectious diseases have been reported repeatedly, during and following the Hajj. Meningococcal meningitis, gastroenteritis, hepatitis A, B and C, and various zoonotic diseases comprise some of the possible infectious hazards at the Hajj. Many of these infectious and non-infectious hazards can be avoided or averted by adopting appropriate prophylactic measures. Physicians and health personnel must be aware of these risks to appropriately educate, immunize and prepare these travellers facing the unique epidemiological challenges of Hajj in an effort to minimize untoward effects. Travel epidemiology related to the Hajj is a new and exciting area, which offers valuable insights to the travel specialist. The sheer scale of numbers affords a rare view of migration medicine in action. As data is continually gathered and both national and international policy making is tailored to vital insights gained through travel epidemiology, the Hajj will be continually safeguarded. Practitioners will gain from findings of travel related epidemiological changes in evolution at the Hajj: the impact of vaccinating policies, infection control policies and

public health are afforded a real-world laboratory setting at each annual Hajj, allowing us to learn from this unique phenomenon of migration medicine. .COPYRGT. 2002 Elsevier Science B.V. and the International Society of Chemotherapy. All rights reserved.

L6 ANSWER 11 OF 87 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2003258976 EMBASE

TITLE: [Role of infection in exacerbation and

instability of asthma].

EXACERBATION ET INSTABILITE DE L'ASTHME: QUEL ROLE JOUE L'

INFECTION?.

AUTHOR: Aubier M.; Benhamou D.; Boucot I.; Brami G.; Couderc J.-L.;

Freymuth F.; Gaillat J.; Jarlier V.; Leophonte P.; Mayaud C.; Neukirch F.; Pappo M.; Perronne C.; Petitprez P.; Schlemmer B.; Veyssier P.; Dusser D.; Grimfeld A.; Murris

M.; Bornstain C.; Piccoli S.

CORPORATE SOURCE: C. Mayaud, Service de Pneumologie, Hopital Tenon, 4, rue de

la Chine, 75020 Paris, France

SOURCE: Revue de Pneumologie Clinique, (2003) 59/1 (3-5).

Refs: 21

ISSN: 0761-8417 CODEN: RPCLEZ

COUNTRY: France

DOCUMENT TYPE: Journal; Editorial FILE SEGMENT: 004 Microbiology

015 Chest Diseases, Thoracic Surgery and Tuberculosis

026 Immunology, Serology and Transplantation

037 Drug Literature Index

LANGUAGE: French

L6 ANSWER 12 OF 87 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

ACCESSION NUMBER: 2002-08674 BIOTECHDS

TITLE: Composition useful for treatment of mycoplasma

infection and diseases associated with cell

proliferation e.g. malignancy or with co-infection with another microbe, comprises agent inhibiting sialic

acid-mediated attachment of mycoplasma;

native or recombinant enzyme treatment and vector-mediated

gene transfer and expression in host cell for

disease therapy or prevention

AUTHOR: HIGUCHI M D L; SCHENKMAN S
PATENT ASSIGNEE: HIGUCHI M D L; SCHENKMAN S
PATENT INFO: WO 2002002050 10 Jan 2002
APPLICATION INFO: WO 2000-BR83 3 Jul 2000
PRIORITY INFO: BR 2000-2989 3 Jul 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2002-154675 [20]

AB DERWENT ABSTRACT:

NOVELTY - A composition useful for treating or preventing mycoplasma infection in a subject suffering from a disorder characterized by increased cell proliferation or by coinfection with a second microbe comprising an agent that prevents or inhibits sialic acid-mediated attachment of mycoplasma to the subject's cells, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for use of an agent preventing/inhibiting mycoplasma infection in medicaments to treat disorders characterized by increase cell proliferation.

BIOTECHNOLOGY - Preferred Composition: The agent is preferably an enzyme (native or recombinant) with neuraminidase and/or transsialidase activity, especially derived from Trypanosoma cruzi. It preferably has fully defined sequence (I) of 669 amino acids as given in the specification. The medicament preferably includes a vector comprising

DNA insert of a fully defined sequence (II) of 2010 base pairs as given in the specification, producing the preferred enzyme having sequence (I) as above.

ACTIVITY - Antiatherosclerotic; antibacterial; antiviral; anti-HIV; cytostatic; vasotropic. A laboratory rat population was determined to be infected with both Mycoplasma pulmonis and Chlamydia pneumoniae using standard immunohistological techniques and histological examination of various organs. Nine adult rats (approximately 285 g; seven males, two females) presenting conjunctivitis, slow movements and, in one rat severe otitis and another severe weight loss, were allocated to groups A or B. A (Control group) comprised three animals, two of which were killed without injecting any substance and one receiving an inactivated form of 'TSC' (recombinantly produced catalytic portion of Trypanosoma cruzi transsialidase) for 5 consecutive days. B comprised five animals receiving 'TNS' (complete, native Trypanosoma cruzi transsialidase) (0.5 ml/animal, every 2 days) and sacrificed after 7, 9, and 12 days, and one rat receiving active TSC (140 microgram/day, five consecutive days) and killed after 7 days. Group B rats showed a clear improvement in symptoms, becoming more agile, requiring more ether to anesthetize them and becoming more difficult to restrain. The animal with otitis showed less equilibrium loss and the animal with severe weight loss gained weight. Since the lung was the most frequently injured organ, pulmonary alterations were examined using electron microscopy, confocal laser microscopy and immunohistochemistry. Histological sections showed that treated animals presented resolving pneumonitis after 7 d. After 9-12 days M. pulmonis were almost absent from alveoli and mean C. pneumoniae positive cell numbers in alveoli had decreased, compatible with regression of C. pneumoniae infection. Results are given in the specification.

MECHANISM OF ACTION - Inhibits sialic acid mediated attachment of mycoplasma to cells.

USE - The compositions are useful to treat diseases associated with undesirable cell proliferation, such as atherosclerotic vascular disease and malignancy (both claimed), by reducing or preventing mycoplasma infection. They also useful to treat diseases associated with infection with other infectious organisms co-occurring with mycoplasma (and typically increasing the virulence of both pathogens), especially human immunodeficiency virus or chlamydia species. They can be used to treat such diseases in humans or other animals, and can be administered in conjunction with conventional agents e.g. anti-platelet or chemotherapeutic agents. (63 pages)

ANSWER 13 OF 87 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:977677 HCAPLUS

DOCUMENT NUMBER: 138:54549

TITLE: Uses of cytokines as adjuvants in avian vaccines INVENTOR(S): Lowenthal, John William; Boyle, David Bernard; Quere,

Pascale

PATENT ASSIGNEE(S): Institut National De La Recherche Agronomique, Fr.;

Commonwealth Scientific and Industrial Research

Organisation

SOURCE: PCT Int. Appl., 101 pp.

CODEN: PIXXD2

DOCUMENT TYPE: ·
LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2002102404 A1 20021227 WO 2002-AU800 20020618

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

```
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
               PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
               UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
               TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
               CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
               BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                                  US 2001-299047P P 20010618
     The invention relates to a method of treatment or prophylaxis of avian
     pathogenic disease in a bird comprising administering to the
     bird one or more avian cytokine polypeptides sufficient to stimulate the
     immune response of the bird to an antigen. The avian cytokine
     polypeptides may be administered directly or via a nucleic acid mol.
     method may further comprise administration of an antigen administered
     directly or via a nucleic acid mol. The invention also includes vaccines
     and gene constructs for carrying out the method. The vaccines and
     cytokines can be used to protect birds against viral and bacterial
     infection and cancer. The cytokines are selected from
     colony-stimulating factor, interferon, and interleukin.
                                                                       The birds can be
     poultry, domestic, or game birds.
REFERENCE COUNT:
                                   THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
                             8
                                    RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 14 OF 87 HCAPLUS COPYRIGHT 2005 ACS on STN
                             2002:676289 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                             137:211942
TITLE:
                             Drug design against drug resistant mutants using
                             directed evolution and target protein conformation
                             changes
                             Stevens, Raymond C.; Orencia, Maria C.; Yoon, Jun S.;
INVENTOR(S):
                             Hanson, Michael A.
PATENT ASSIGNEE(S):
                             The Scripps Research Institute, USA
                             PCT Int. Appl., 82 pp.
SOURCE:
                             CODEN: PIXXD2
                             Patent
DOCUMENT TYPE:
LANGUAGE:
                             English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                            KIND
                                    DATE
                                                  APPLICATION NO.
                                                                             DATE
                             ----
                                     -----
                                                  -----
                                                                             -----
                                                  WO 2002-US6238
     WO 2002068933
                             A2
                                     20020906
                                                                             20020227
     WO 2002068933
                             A3
                                     20021121
              AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
               TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                                  US 2001-272248P
                                                                      P 20010228
     The present invention provides methods for identifying new drugs and
     potential inhibitors and modulators of drug-resistant variants of a target
     protein of a drug of interest. A drug-resistant variant according to the
     invention has at least one mutation resulting in a structural change, an
     activity change or a stability change as compared to the target protein.
     Such variants would include natural variants such as those encountered in
     the clinic, but preferably variants are selected by directed evolution
     methodol. The present invention relates to methods for designing new
```

drugs useful against drug-resistant bacterial cells, viruses, mammalian

cells and the like. The method involves identifying a target protein of the drug, selecting for drug-resistant variants that have an altered target protein (variant protein) by directed evolution, determining the three dimensional structure of the target and variant proteins and designing a new drug that can be effective against at least one drug-resistant variant. The present invention can be used to predict future mutations that lead to drug resistance and the type of drugs that are effective to combat such resistance.

L6 ANSWER 15 OF 87 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2002046997 EMBASE TITLE: Infectious diseases.

AUTHOR: Erard Ph.

CORPORATE SOURCE: Dr. Ph. Erard, Departement de Medecine, Hopital des

Cadolles, 2000 Neuchatel, Switzerland. ph.erard@net2000.ch

SOURCE: Medecine et Hygiene, (16 Jan 2002) 60/2375 (111-114).

Refs: 34

ISSN: 0025-6749 CODEN: MEHGAB

COUNTRY: Switzerland
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 004 Microbiology

O15 Chest Diseases, Thoracic Surgery and Tuberculosis

037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

About 75% of antibiotic prescriptions in the outpatient setting are made for upper respiratory tract infections. New guidelines have been issued this year emphasizing that the vast majority of antibiotic prescriptions are not justified. More importantly, these unnecessary prescriptions are likely to contribute considerably to the emergence of antibiotic resistance. Community-acquired pneumonia is mainly caused by pneumococci and mycoplasma. Empirical treatment should therefore cover both groups of pathogens. Several studies have shown that neuraminidase-inhibitors, when administered prophylactically to family members of an index case with influenza, can prevent intrafamilial transmission of influenza. While a single dose of prophylactic doxycycline given shortly after a tick bite and removal of tick, can prevent the transmission of the Lyme agent in areas with a high (>3%) transmission rate, antibiotic treatment of patients with chronic fatigue having suffered of Lyme disease was of no benefit. Self-treatment of young women with acute uncomplicated cystitis has been used in clinical practice for many years. A recent prospective study validates this approach. These and other new studies should hopefully contribute to a rational and economic usage of antibiotics.

L6 ANSWER 16 OF 87 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:597831 HCAPLUS

DOCUMENT NUMBER: 135:166024

TITLE: Methods for the prevention and treatment of

infections and cancer using anti-C3b(i)

antibodies

INVENTOR(S): Taylor, Ronald P.; Lindorfer, Margaret A.; Sutherland,

William M.; Goldberg, Joanna B.

PATENT ASSIGNEE(S): The University of Virginia Patent Foundation, USA

SOURCE: PCT Int. Appl., 94 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

```
WO 2001058483
                         A2
                                20010816
                                          WO 2001-US4020
                                                                   20010208
    WO 2001058483
                         A3
                                20020418
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
            HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
            LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
            SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
            YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    CA 2400488
                         AA
                                20010816
                                          CA 2001-2400488
                                                                   20010208
    EP 1257583
                         A2
                                20021120
                                          EP 2001-907104
                                                                   20010208
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                         T2
                                20030722
                                           JP 2001-557591
    JP 2003522159
                                                                   20010208
                                           US 2000-181143P
                                                               P 20000208
PRIORITY APPLN. INFO.:
                                            US 2000-724621
                                                               A 20001128
                                           WO 2001-US4020
                                                                W 20010208
    The present invention relates to the treatment and prevention of viral
AB
     infections, microbial infections, and septic shock by
     the administration of anti-C3b(i) antibodies. The present invention also
     relates to methods of treating and preventing viral infection,
    microbial infection, or septic shock in an animal comprising
     administering to said animal IgG antibodies, IgM antibodies and/or
     complement components in combination with antibodies immunospecific for
     C3b(i). The present invention also relates methods of treating and
    preventing viral infection or microbial infection in
     an animal comprising administering said animal antibodies that
     immunospecifically bind to one or more viral antigens or microbial
     antigens, resp., in combination with antibodies immunospecific for C3b(i).
     The present invention further relates methods of treating and preventing
     septic shock in an animal comprising administering said animal antibodies
     that immunospecifically bind to lipopolysaccharide, an endotoxin or a
     constituent of the outer wall of a gram neg. bacteria in combination with
     antibodies immunospecific for C3b(i). The examples discuss the use of
     anti-C3b(i) antibodies for the treatment and prevention of cancer.
    ANSWER 17 OF 87 HCAPLUS COPYRIGHT 2005 ACS on STN
                        2001:792223 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                        135:348878
                         Therapeutic treatment and prevention of
TITLE:
                         infections with a bioactive materials
                         encapsulated within a biodegradable-biocompatible
                        polymeric matrix
INVENTOR(S):
                         Setterstrom, Jean A.; Van Hamont, John E.; Reid,
                         Robert H.; Jacob, Elliot; Jeyanthi, Ramasubbu;
                         Boedeker, Edgar C.; Mcqueen, Charles E.; Jarboe,
                         Daniel L.; Cassels, Frederick; Brown, William; Thies,
                         Curt; Tice, Thomas R.; Roberts, F. Donald; Friden,
                         Phil
                         United States of America as Represented by the
PATENT ASSIGNEE(S):
                         Secretary of the Army, USA
                         U.S., 141 pp., Cont.-in-part of U.S. Ser. No. 590,973,
SOURCE:
                         abandoned.
                         CODEN: USXXAM
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
```

APPLICATION NO.

20011030 US 1997-789734

DATE

19970127

PATENT NO.

US 6309669

KIND

_ _ _ _

B1

DATE

```
US 5417986
                               19950523
                                           US 1992-867301
                                                                  19920410
    US 6410056
                         B1
                               20020625
                                          US 1995-446148
                                                                  19950522
    NZ 335409
                         Α
                               20001222
                                          NZ 1996-335409
                                                                  19961118
    US 6447796
                         В1
                               20020910
                                          US 1997-920326
                                                                  19970821
    US 2003082193
                         A1
                               20030501
                                          US 1998-13077
                                                                  19980126
    WO 9832427
                         A1
                               19980730
                                          WO 1998-US1556
                                                                  19980127
            AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,
            LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
            PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US,
            UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
            FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
             GA, GN, ML, MR, NE, SN, TD, TG
    AU 9863175
                         A1
                               19980818
                                           AU 1998-63175
                                                                  19980127
    US 2003129233
                         A1
                                20030710
                                           US 2002-165975
                                                                  20020610
    US 2003161889
                               20030828
                                           US 2002-224125
                                                                  20020820
                         A1
PRIORITY APPLN. INFO.:
                                           US 1984-590308
                                                               B1 19840316
                                           US 1992-867301
                                                               A2 19920410
                                           US 1995-446148
                                                               A2 19950522
                                           US 1995-446149
                                                               B2 19950522
                                           US 1996-590973
                                                               B2 19960124
                                           US 1990-493597
                                                               B2 19900315
                                           US 1990-521945
                                                               B2 19900511
                                           US 1991-690485
                                                               B2 19910424
                                           US 1991-805721
                                                               B2 19911121
                                                               B1 19930322
                                           US 1993-34949
                                                               B2 19930521
                                           US 1993-64559
                                                               B2 19940107
                                           US 1994-209350
                                                               A2 19940516
                                           US 1994-242960
                                                               B2 19940523
                                           US 1994-247884
                                                               B2 19941223
                                           US 1994-362944
                                           US 1996-675895
                                                               A2 19960705
                                           US 1996-698896
                                                               A2 19960816
                                           NZ 1996-325561
                                                               A1 19961118
                                           US 1997-789734
                                                               A2 19970127
                                           US 1997-920326
                                                               A1 19970821
                                           US 1998-9986
                                                               A2 19980121
                                           WO 1998-US1556
                                                               W 19980127
```

AB Novel burst-free, sustained-release biocompatible and biodegradable microcapsules which can be programmed to release their active core for variable durations ranging from 1-100 days in an aqueous physiol. environment are disclosed. The microcapsules are comprised of a core of polypeptide or other biol. active agent encapsulated in a matrix of poly(lactide/glycolide) copolymer, which may contain a pharmaceutically-acceptable adjuvant, as a blend of upcapped free carboxyl end group and end-capped forms ranging in ratios from 100/0 to 1/99. Ampicillin microcapsules effectively prevented infection in 73% of rats whose wound were inoculated with ampicillin-resistant strains of Staphilococcus aureus, while systemic ampicillin failed in 100% of animals.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 18 OF 87 MEDLINE on STN DUPLICATE 5

ACCESSION NUMBER: 2001325552 MEDLINE DOCUMENT NUMBER: PubMed ID: 11316899

TITLE: Autoimmune hemolytic anemia caused by IgG lambda-monotypic

cold agglutinins of anti-Pr specificity after rubella

infection.

AUTHOR: Konig A L; Schabel A; Sugg U; Brand U; Roelcke D

CORPORATE SOURCE: Institute of Transfusion Medicine, Katharinenhospital,

Stuttgart, Germany.

SOURCE: Transfusion, (2001 Apr) 41 (4) 488-92.

Journal code: 0417360. ISSN: 0041-1132.

PUB. COUNTRY: United States DOCUMENT TYPE: (CASE REPORTS)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200106

ENTRY DATE: Entered STN: 20010611

Last Updated on STN: 20010611 Entered Medline: 20010607

BACKGROUND: In postinfection cold agglutinin (CA) disease, a relation between CA specificity and the underlying infectious agent has been observed. The induction of anti-I by Mycoplasma pneumoniae and that of anti-i by EBV are well-established examples. CASE REPORT: A 5-year-old boy developed severe hemolytic anemia after serologically ascertained rubella infection. Hemolysis was caused by high-titer CAs, which were analyzed by absorption and elution with sialidase-treated RBCs and hemagglutination-inhibition experiments. RESULTS: After elimination of normal anti-I and anti-T, the predominant CA was found to be an IgG lambda autoantibody with anti-Pr(1) specificity. CONCLUSION: This case seems to be of interest because it is the first report of severe CA-induced hemolysis after rubella infection, it is the first description of an IgG lambda-monotypic CA, and, along with previous case reports (three established and three suspected cases), it indicates a relationship between rubella infection and the CA specificity anti-PR:

L6 ANSWER 19 OF 87 MEDLINE ON STN DUPLICATE 6

ACCESSION NUMBER: 2001275243 MEDLINE DOCUMENT NUMBER: PubMed ID: 11368254

TITLE: Vaginal microflora associated with bacterial vaginosis in

nonpregnant women: reliability of sialidase

detection.

AUTHOR: Smayevsky J; Canigia L F; Lanza A; Bianchini H

CORPORATE SOURCE: Laboratorio de Microbiologia, Centro de Educacion Medica e

Investigaciones Clinicas Dr. Norberto Quirno CEMIC, Buenos

Aires, Argentina.. JSmayevsky@cemic.edu.ar

SOURCE: Infectious diseases in obstetrics and gynecology, (2001) 9

(1) 17-22.

Journal code: 9318481. ISSN: 1064-7449.

PUB. COUNTRY:

United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200110

ENTRY DATE: Entered STN: 20011015

Last Updated on STN: 20011015

Entered Medline: 20011011

OBJECTIVE: To determine the prevalence of Gardnerella vaginalis, anaerobic AΒ bacteria and Mycoplasma hominis in vaginal specimens of women with and without bacterial vaginosis (BV) as well as to determine the sensitivity and specificity of the direct sialidase assay of vaginal fluid as a rapid test for diagnosing this syndrome. METHODS: Vaginal cultures were obtained from 109 nonpregnant women (mean age 33 +/-7.1 years), 47 of them with clinical signs of BV (BV+) and 62 of them without BV (BV-). In addition, we determined the vaginal sialidase activity in both groups, which may serve as a feature of this syndrome. RESULTS: Anaerobic bacteria were isolated in 91% and 18% of the BV+ and BV- groups, respectively (p < 0.001). Peptostreptococcus spp., Prevotella bivia and Porphyromonas spp. were strongly associated with BV. P. bivia and Prevotella spp. represented 44% of all the anaerobes isolated in the BV+ group. All the isolated P. bivia strains presented sialidase activity. G. vaginalis and M. hominis were isolated in 76% and 42% of the BV+ and 1% and 0% of the BV- women,

respectively (p < 0.001). Mobiluncus morphotypes were observed in 34% of the BV+ and 0% of BV- women. Sensitivity, specificity, positive predictive value and negative predictive value of **sialidase** activity were 81%, 94%, 90% and 86%, respectively. CONCLUSIONS: Our data demonstrate a strong association between G. vaginalis, M. hominis, and P. bivia and BV. **Sialidase** activity and Gram stain of vaginal fluid represent accurate methods for diagnosing BV.

L6 ANSWER 20 OF 87 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:573950 HCAPLUS

DOCUMENT NUMBER: 133:173019

TITLE: Replication-competent porcine adenovirus-based viral

vaccines

INVENTOR(S): Eloit, Marc; Klonjkowski, Bernard Georges

PATENT ASSIGNEE(S): Merial, Fr.; Ecole Nationale Veterinaire De Maisons

Alfort

SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.						KIND DATE			i	APPL	ICAT		DATE				
	WO 2000047756			A1	A1 20000817			1	000-	FR29	20000208							
		W:	ΑE,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	CU,
			CZ,	DE,	DK,	DM,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,
			IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,
			MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,
			SK,	SL,	TJ,	TM,	TR,	TT,	UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZW,	AM,	AZ,
								TJ,				-				•		
		RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,
																	BJ,	
			CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG	·	·	Ţ	
	FR	2789	695	•	·	A1 20000818				FR 1999-1813					19990211			
	FR	2789	695			B1		2003	0307									
	CA	2362	454			AA		2000	0817	(000-	2362	20000208					
						A1 20011107												
		R:	AT.	BE.	CH.	DE.	DK.	ES.	FR.	GB.	GR.	IT.	LI.	LU,	NL.	SE.	MC,	PT.
			•	•	•	LV,	•	•		•		,						•
	BR	2000		•	•	•	•	2002	0402]	BR 2	000-	8205			2	20000	208
										JP 2000-598651								
PRIOF																	19990	
											000-					20000		
									_									

AB Replication competent porcine adenovirus carrying a foreign gene in the non-essential E3 region and that can be used as vaccine vectors are described. Porcine adenovirus 3 and 5 vectors are described. Construction of a number of vectors in which the E3 region is replaced is described.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 21 OF 87 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

ACCESSION NUMBER: 2001115984 EMBASE

TITLE: Infection and preterm labor.

AUTHOR: Yost N.P.; Cox S.M.

CORPORATE SOURCE: Dr. N.P. Yost, Department of Obstetrics, Univ. of Texas SW

Medical Center, 5323 Harry Hines Boulevard, Dallas, TX

75390-9032, United States

SOURCE: Clinical Obstetrics and Gynecology, (2000) 43/4 (759-767).

Refs: 38

ISSN: 0009-9201 CODEN: COGYAK

COUNTRY: United States

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 007 Pediatrics and Pediatric Surgery

010 Obstetrics and Gynecology 037 Drug Literature Index

LANGUAGE: English

L6 ANSWER 22 OF 87 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN DUPLICATE 7

ACCESSION NUMBER: 2000223302 EMBASE

TITLE: Coexisting anti-I/-i plus anti-Pr cold agglutinins in

individual sera.

AUTHOR: Roelcke D.; Konig A.L.; Seyfert U.T.; Pereira A.

CORPORATE SOURCE: Dr. D. Roelcke, Institut fur Immunologie, Universitat

Heidelberg, Im Neuenheimer Feld 305, D-69120 Heidelberg,

Germany

SOURCE: Infusionstherapie und Transfusionsmedizin, (2000) 27/3

(149-153). Refs: 26

Switzerland

ISSN: 1019-8466 CODEN: IRANEE

DOCUMENT TYPE: FILE SEGMENT:

COUNTRY:

Journal; Article
025 Hematology

LANGUAGE: English

SUMMARY LANGUAGE: English; German

AB Background: Sera with high-titer cold agglutinins (CAs) of unclear or even

of apparently definite specificity may contain mixtures of CAs with

different specificities. The combination of anti-I plus anti-Sia-b1 CAs in

sera of patients with Mycoplasma pneumoniae infections is well documented. No systematic studies on CA mixtures in sera of

patients with other diagnoses are available. Material and Methods: Sera of

322 patients with high-titer CAs were exhaustively absorbed with sialidase-treated red blood cells (RBCs). By absorption, CAs

against the sialidase-resistant I/i antigens are removed. If CAs

reacting with untreated RBCs are left after absorption, they are directed against the **sialidase**- and protease-sensitive Pr1,2,3 antigens or against the **sialidase**-labile but protease-resistant antigens

or against the **sialidase**-labile but protease-resistant antigens of the Sia-1/b/lb complex. If CA mixtures were found, specificities and isotypes of the CAs obtained by cold adsorption and warm elution were determined. Results: Three patients had mixtures of anti-i plus anti-Pr CAs. 2 patients had mixtures of anti-I plus anti-Pr CAs. Conclusion: The

CAs, 2 patients had mixtures of anti-I plus anti-Pr CAs. Conclusion: The occurrence of CAs directed against biochemically different antigens in individual sera proves two autoimmune processes against the same cells (erythrocytes) in the same patient. One explanation for this constellation would be a postinfection cold agglutination in a patient with chronic CA

disease.

6 ANSWER 23 OF 87 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:659405 HCAPLUS

DOCUMENT NUMBER: 131:285411

TITLE: Avian IL-15 nucleotides and polypeptides, and methods

of immunizing poultry using avian IL-15

INVENTOR(S): Choi, Kang; Tsusaki, Yoshinari; Kamogawa, Koichi;

Lillehoj, Hyun S.

PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan; United States Dept. of

Agriculture

SOURCE: PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

```
. ----
                               -----
                                        WO 1999-US7485
                                                               19990406
    WO 9951622
                        A1
                              19991014
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
            KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
            MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
            TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,
            TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
            ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
            CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9934720
                        A1
                               19991025
                                         AU 1999-34720
                                                                 19990406
    JP 11346786
                         A2
                               19991221
                                          JP 1999-98329
                                                                 19990406
PRIORITY APPLN. INFO.:
                                          US 1998-55293
                                                              A 19980406
                                          WO 1999-US7485
                                                             W 19990406
AB
     The present invention relates to an isolated avian IL-15 polypeptide
     comprising: (a) the amino acid sequence of SEQ ID NO:1; (b) fragments of
     the amino acid sequence of SEQ ID NO:1, wherein said fragments stimulate
     growth of avian T lymphocytes expressing γδTCR; or (c) the
     amino acid sequence of SEQ ID NO:1 having one or more amino acid
     substitutions, mutations, deletions and insertions and to polynucleotides
     encoding the amino acid sequences. The present invention further
     encompasses methods of recombinantly producing said amino acid and
    polynucleotide sequences and methods of using the amino acid and
    polynucleotide sequences, particularly for avian vaccines. The sequence
     of chicken IL-15, SEQ ID Nos:1 and 2 are described. Thus, recombinant
     fowlpox virus fNZ29R/IL-15 was constructed and purified, and expression of
     fNZ29R/IL-15 was verified.
                              THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                        3
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L6
    ANSWER 24 OF 87 HCAPLUS COPYRIGHT 2005 ACS on STN
                        1999:344861 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                        131:4240
                        Immunoglobulin molecules having a synthetic variable
TITLE:
                        region and modified specificity
INVENTOR(S):
                        Burch, Ronald M.
                        Euro-Celtique, S.A., Bermuda
PATENT ASSIGNEE(S):
                        PCT Int. Appl., 123 pp.
SOURCE:
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
                        English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                         APPLICATION NO.
     PATENT NO.
                        KIND
                               DATE
                                                                DATE
                               -----
                                          -----
                        ----
     WO 9925378
                               19990527 WO 1998-US24302
                                                                19981113
                         A1
```

```
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
       DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE,
       KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,
       MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
        TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
   RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
       FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
       CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
CA 2309990
                           19990527
                                    CA 1998-2309990
                                                              19981113
                     AΑ
                                      CA 1998-2310269
CA 2310269
                     AΑ
                           19990527
                                                              19981113
WO 9925379
                           19990527
                                     WO 1998-US24303
                                                              19981113
                    A1
       AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
       DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE,
       KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,
       MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
        TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
```

```
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    AU 9914597
                         A1
                                19990607
                                            AU 1999-14597
                                                                   19981113
    AU 763029
                          B2
                                20030710
    AU 9914598
                          A1
                                19990607
                                           AU 1999-14598
                                                                   19981113
    AU 737457
                         B2
                                20010823
    EP 1030684
                         A1
                                20000830
                                           EP 1998-958584
                                                                   19981113
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI
    EP 1032420
                                20000906
                                           EP 1998-958583
                         A1
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI
     JP 2001526021
                         T2
                                20011218
                                            JP 2000-520811
                                                                   19981113
    BR 9815289
                                            BR 1998-15289
                         A
                                20011226
                                                                   19981113
    BR 9815580
                         A
                                20020129
                                           BR 1998-15580
                                                                   19981113
    JP 2002507544
                         T2
                                20020312
                                           JP 2000-520812
                                                                   19981113
    ZA 9900048
                         Α
                                19990708
                                           ZA 1999-48
                                                                   19990105
     ZA 9900049
                         Α
                                20000309
                                           ZA 1999-49
                                                                   19990105
    US 2002028469
                         A1
                                20020307
                                           US 2001-963232
                                                                   20010926
                                           BR 2002-12865
    BR 2002012865
                         Α
                                20040914
                                                                   20020828
PRIORITY APPLN. INFO.:
                                            US 1997-65716P
                                                               P 19971114
                                                               P 19980410
                                            US 1998-81403P
                                            US 1998-191780
                                                               A1 19981113
                                            WO 1998-US24302
                                                               W 19981113
                                            WO 1998-US24303
                                                                W 19981113
                                            US 2001-963232
                                                                Α
                                                                   20010926
                                            WO 2002-US27446
                                                                W 20020828
    The invention provides modified Ig mols., particularly antibodies, that
     immunospecifically bind a first member of a binding pair which binding
```

AB The invention provides modified Ig mols., particularly antibodies, that immunospecifically bind a first member of a binding pair which binding pair consists of the first member and a second member, which Igs have a variable domain containing one or more complimentary determining regions that contain the amino acid sequence of a binding site for the second member of the binding pair. The first member is a tumor antigen or an antigen of an infectious disease agent, and the second member is a mol. on the surface of an immune cell. The invention further provides for therapeutic and diagnostic use of the modified Ig.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 25 OF 87 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:467965 HCAPLUS

DOCUMENT NUMBER: 131:115304

TITLE: Recombinant herpesvirus of turkeys and uses thereof

INVENTOR(S): Cochran, Mark D.

PATENT ASSIGNEE(S): Syntro Corp., USA

SOURCE: U.S., 92 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 18

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5928648	A	19990727	US 1993-23610	19930226
US 4877737	A	19891031	US 1985-773430	19850906
US 5068192	A	19911126	US 1986-823102	19860127
WO 8701287	A1	19870312	WO 1986-US1804	19860903
W: AU, DK, JP			_	
RW: AT, BE, CH,	DE, FR,	GB, IT, LU	, NL, SE	
AU 8663717	A1	19870324	AU 1986-63717	19860903
EP 237546	A1	19870923	EP 1986-905609	19860903
R: AT, BE, CH,	DE, FR,	GB, IT, LI	, LU, NL, SE	

```
T2
                                            JP 1986-504917
    JP 63501122
                                19880428
                                                                    19860903
    EP 256092
                          A1
                                19880224
                                            EP 1987-901222
                                                                    19870123
    EP 256092
                          B1
                                19980408
         R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
    EP 794257
                         A1
                                19970910
                                            EP 1997-103457
                                                                    19870123
         R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
    AT 164885
                          Ε
                                19980415
                                           AT 1987-901222
                                                                    19870123
    CA 1339468
                          A1
                                19970923
                                            CA 1987-528117
                                                                    19870126
     IL 81398
                          A1
                                19970814
                                            IL 1987-81398
                                                                    19870127
    FR 2601689
                         A1
                                19880122
                                           FR 1987-10142
                                                                    19870717
                         B1
    FR 2601689
                                19921016
                                            US 1988-192866
    US 5047237
                        Α
                                19910910
                                                                    19880511
    US 5223424
                         Α
                                19930629
                                            US 1988-225032
                                                                    19880727
    EP 658623
                         A2
                                19950621
                                           EP 1995-100565
                                                                    19880727
    EP 658623
                          A3
                                19950927
        R: BE, DE, FR, GB, IT, NL
                                           AU 1992-10266
    AU 9210266
                          A1
                                19920514
                                                                    19920115
    AU 656553
                          B2
                                19950209
    WO 9325665
                          A1
                                19931223
                                            WO 1993-US5681
                                                                    19930614
         W: AU, CA, HU, JP, KR, PL, RO, RU
         RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                                19940104
    AU 9345362
                                            AU 1993-45362
                                                                    19930614
                          A1
                                19971204
    AU 684046
                          B2
    EP 644931
                                19950329
                                            EP 1993-915344
                                                                    19930614
                          A1
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
                                            JP 1993-501778
                         T2
                                19960206
                                                                  19930614
     JP 08500969
                                            US 1993-78873
                                                                    19930617
    US 5506128
                          Α
                                19960409
                                            US 1994-247475
    US 5593873
                                                                    19940523
                          Α
                                19970114
    US 5961982
                                            US 1994-288065
                          Α
                                19991005
                                                                    19940809
    US 5731188
                                            US 1994-323531
                          Α
                                19980324
                                                                    19941014
    US 5965138
                                            US 1994-362240
                          Α
                                19991012
                                                                    19941222
                                            US 1995-384476
    US 5763269
                          Α
                                19980609
                                                                    19950201
    US 5599544
                                            US 1995-479650
                          Α
                                19970204
                                                                    19950607
    US 5853733
                          Α
                                19981229
                                            US 1996-663566
                                                                    19960613
                                            US 1996-674169
    US 5804372
                          Α
                                19980908
                                                                    19960701
                                            US 1997-915520
    US 6121043
                          Α
                                                                    19970815
                                20000919
                                            US 1997-912803
                         B1
    US 6210961
                                20010403
                                                                    19970818
                                            US 2001-881457
    US 2002081316
                          A1
                                20020627
                                                                    20010614
                                                                 A2 19850906
PRIORITY APPLN. INFO.:
                                            US 1985-773403
                                            US 1985-773430
                                                                 YY 19850906
                                            US 1985-773430
                                                                 A2 19850906
                                                                 YY 19860127
                                            US 1986-823102
                                            US 1986-823102
                                                                 A2 19860127
                                                                 YY 19860127
                                            US 1986-823102
                                                                 B2 19860717
                                            US 1986-887140
                                                                 B2 19860902
                                            US 1986-902877
                                            US 1986-902887
                                                                 B2 19860902
                                            US 1986-933107
                                                                 B2 19861120
                                                                 B2 19870727
                                            US 1987-78519
                                            US 1988-225032
                                                                 A2 19880727
                                                                 B2 19910131
                                            US 1991-649380
                                                                 B2 19910430
                                            US 1991-696262
                                            US 1992-898087
                                                                 B2 19920612
                                            US 1992-914057
                                                                 B2 19920713
                                            WO 1986-US1804
                                                                 A 19860903
                                                                 A3 19870123
                                            EP 1987-901222
                                            US 1988-192866
                                                                 A2 19880519
                                                                 A3 19880727
                                            EP 1988-907889
                                                                 B1 19910718
                                            US 1991-732584
                                            US 1992-926784
                                                                 B1 19920807
                                            US 1993-23610
                                                                 A 19930226
                                            US 1993-37707
                                                                 B1 19930325
                                            WO 1993-US5681
                                                                 A 19930614
                                            US 1993-117633
                                                                 B1 19930907
```

US	1994-247475	A1	19940523
US	1994-288065	A1	19940809
US	1994-334428	A1	19941104
WO	1995-US10245	A2	19950809
US	1996-663566	A2	19960613
US	1997-804372	A1	19970221
US	1999-426352	B2	19991025

AB The present invention relates to a recombinant herpesvirus of turkeys comprises foreign DNA inserted into a site in the herpesvirus of turkeys genome which is not essential for replication of the herpesvirus of turkeys. The invention further relates to homol. vectors which produce recombinant herpesvirus of turkeys by inserting foreign DNA into herpesvirus of turkeys genome. Genetically-engineered virus S-FPV-062 is described in the Materials and Methods section which follows. One advantage of recombinant HVT as live vaccines is that they may be engineered to express only a limited number of antigens that are needed to confer protective immunity to the corresponding pathogens. Consequently, host animals vaccinated with the recombinant HVT can be distinguished from those which have been infected with the wild type virus by the absence of antigens that are normally present in the wild type virus.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 26 OF 87 MEDLINE on STN DUPLICATE 8

ACCESSION NUMBER: 1999344855 MEDLINE DOCUMENT NUMBER: PubMed ID: 10416366

TITLE: Interactions of Mycoplasma bovoculi with

erythrocytes: role of p94 surface protein.

AUTHOR: Salih B A; Rosenbusch R F

CORPORATE SOURCE: Department of Microbiology, Immunology and Preventive

Medicine, Iowa State University, Ames, USA.

SOURCE: Zentralblatt fur Veterinarmedizin. Reihe B. Journal of

veterinary medicine. Series B, (1999 Jun) 46 (5) 323-9.

Journal code: 0331325. ISSN: 0514-7166. GERMANY: Germany, Federal Republic of Journal; Article; (JOURNAL ARTICLE)

DOCUMENT TYPE: Journal; LANGUAGE: English

PUB. COUNTRY:

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199909

ENTRY DATE: Entered STN: 19990913

Last Updated on STN: 20030218 Entered Medline: 19990902

AB The attachment of two strains of Mycoplasma bovoculi to erythrocytes was measured using 35S-methionine-labelled organisms. Receptor sites of M. bovoculi involved in this attachment are trypsin-sensitive, since mild trypsin treatment of the intact organisms abolished this process completely. Pretreatment of erythrocytes with trypsin or increasing concentrations of neuraminidase resulted in no measurable effect. Monoclonal antibody MA25.5 directed against a M. bovoculi surface antigen of 94 kDa termed p94 blocked 40% of the attachment, while MA18.13 directed against a 57 kDa protein band of M. bovoculi had no effect on the attachment process. Other properties of M. bovoculi were tested using six strains of the mycoplasma and erythrocytes from several animal species. None of the strains showed haemagglutinating or haemadsorbing activities.

L6 ANSWER 27 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN

ACCESSION NUMBER: 1999:345454 BIOSIS DOCUMENT NUMBER: PREV199900345454

TITLE: Utility of the gram stain and the sialidase

detection for diagnosis of bacterial vaginosis (BV) in

non-pregnant women (NPW).

AUTHOR(S): Smayevsky, J. [Reprint author]; Roldan, L.; Fernandez

Canigia, L.; Lanza, A.; Bianchini, H.; Decca, L.

CORPORATE SOURCE: CEMIC, Buenos Aires, Argentina

SOURCE: Abstracts of the General Meeting of the American Society

for Microbiology, (1999) Vol. 99, pp. 182. print.

Meeting Info.: 99th General Meeting of the American Society for Microbiology. Chicago, Illinois, USA. May 30-June 3,

1999. American Society for Microbiology.

ISSN: 1060-2011.

DOCUMENT TYPE: Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

Conference; (Meeting Poster)

LANGUAGE: English

ENTRY DATE: Entered STN: 24 Aug 1999

Last Updated on STN: 24 Aug 1999

ANSWER 28 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. L6

ACCESSION NUMBER: 2000:139503 BIOSIS PREV20000139503 DOCUMENT NUMBER:

TITLE: Utility of the Gram stain and the sialidase

detection for diagnosis of bacterial vaginosis (BV) in

non-pregnant women (NPW).

Smayevsky, J. [Reprint author]; Roldan, L.; Fernandez AUTHOR (S):

Canigia, L. [Reprint author]; Lanza, A. [Reprint author]; Arganara, M.; Bianchini, H. [Reprint author]; Decca, L.

CORPORATE SOURCE: Laboratorio de Microbiologia de CEMIC, Buenos Aires,

Argentina

SOURCE: International Journal of Gynecology and Obstetrics, (Nov.,

1999) Vol. 67, No. Suppl. 1, pp. S51. print.

Meeting Info.: Second International Meeting on Bacterial Vaginitis. Aspen, Colorado, USA. September 17-19, 1998.

CODEN: IJGOAL. ISSN: 0020-7292.

DOCUMENT TYPE:

Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LANGUAGE:

English

ENTRY DATE: Entered STN: 19 Apr 2000

Last Updated on STN: 4 Jan 2002

ANSWER 29 OF 87 HCAPLUS COPYRIGHT 2005 ACS on STN

1998:527193 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 129:166193

TITLE: Therapeutic treatment and prevention of

infections with a bioactive material

encapsulated within a biodegradable-biocompatible

polymeric matrix

INVENTOR(S): Setterstrom, Jean A.; Van Hamont, John E.; Reid,

Robert H.; Jacob, Elliot; Jeyanthi, Ramasubbu;

Boedeker, Edgar C.; McQueen, Charles E.; Tice, Thomas

R.; Roberts, F. Donald; Friden, Phil

PATENT ASSIGNEE(S): United States Dept. of the Army, USA; Van Hamont, John

E.; et al.

SOURCE: PCT Int. Appl., 363 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE: FAMILY ACC. NUM. COUNT: English

PATENT INFORMATION:

PATENT NO.				KIN	D	DATE			APPL:	ICAT:	DATE							
																		
WO 9832427				A1 19980730				WO 1998-US1556						19980127				
	W:	ΆL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,	
	•	DK,	EE,	ES,	FI,	GB,	GE,	GH,	HU,	IL,	IS,	JP,	ΚE,	KG,	KP,	KR,	KZ,	
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	

```
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US,
             UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
             FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
             GA, GN, ML, MR, NE, SN, TD, TG
     US 6309669
                          B1
                                20011030
                                            US 1997-789734
                                                                   19970127
     AU 9863175
                                19980818
                          A1
                                            AU 1998-63175
                                                                   19980127
PRIORITY APPLN. INFO.:
                                            US 1997-789734
                                                                A 19970127
                                            US 1984-590308
                                                                B1 19840316
                                            US 1992-867301
                                                                A2 19920410
                                            US 1995-446148
                                                                A2 19950522
                                            US 1995-446149
                                                                B2 19950522
                                            US 1996-590973
                                                                B2 19960124
                                            WO 1998-US1556
                                                                W 19980127
AB
    Novel burst-free, sustained release biocompatible and biodegradable
     microcapsules are disclosed which can be programmed to release their
     active core for variable durations ranging from 1-100 days in an aqueous
     physiol. environment. The microcapsules are comprised of a core of
     polypeptide or other biol. active agent encapsulated in a matrix of
     poly(lactide/glycolide) copolymer, which may contain a pharmaceutically
     acceptable adjuvant, as a blend of upcapped free carboxyl end group and
     end-capped forms ranging in ratios from 100/0 to 1/99.
                               THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                         6
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
1.6
     ANSWER 30 OF 87
                         MEDLINE on STN
                                                        DUPLICATE 9
ACCESSION NUMBER:
                    1998274733
                                   MEDLINE
DOCUMENT NUMBER:
                    PubMed ID: 9611799
TITLE:
                    Identification of two glycosylated components of
                    Mycoplasma penetrans: a surface-exposed capsular
                    polysaccharide and a glycolipid fraction.
                    Neyrolles O; Brenner C; Prevost M C; Fontaine T; Montagnier
AUTHOR:
                    L; Blanchard A
                    Unite d'Oncologie Virale, Institut Pasteur, Paris, France.
CORPORATE SOURCE:
SOURCE:
                    Microbiology (Reading, England), (1998 May) 144 ( Pt 5)
                    1247-55.
                    Journal code: 9430468. ISSN: 1350-0872.
PUB. COUNTRY:
                    ENGLAND: United Kingdom
DOCUMENT TYPE:
                    Journal; Article; (JOURNAL ARTICLE)
LANGUAGE:
                    English
FILE SEGMENT:
                    Priority Journals
ENTRY MONTH:
                    199807
ENTRY DATE:
                    Entered STN: 19980716
                    Last Updated on STN: 19980716
                    Entered Medline: 19980707
AB
     Among the wall-less mycoplasmas only a few species have been
     identified with a capsule at their cell surface. Mycoplasma
     penetrans is a recently identified mycoplasma with unique
     morphology, isolated from HIV-infected patients. Using transmission
     electron microscopy, it was found that M. penetrans is surrounded by
     capsular material 11 nm (strain GTU-54-6A1) to 30 nm (strain HF-2) thick,
     which can be stained with ruthenium red and labelled with cationized
               The polysaccharide composition of this capsule was indicated by
     its staining with periodic acid-thiocarbohydrazide silver proteinate and
     the abolition of ruthenium red staining of the cell surface by
     neuraminidase treatment. In addition, proteinase K treatment of
     the M. penetrans cells resulted in removal of the capsule, suggesting that
     polypeptides may contribute in anchoring it to the membrane or in its
                Two different types of glycosylated material were detected in
     stability.
     mycoplasma extracts by SDS-PAGE and periodic acid-Schiff staining.
```

The first component was a high-molecular-mass material, which was heatand proteinase-K-labile and which probably constitutes the capsular polymer. The other component was a low-molecular-mass glycolipid fraction, which was proteinase-K-, heat- and EDTA-resistant. The identification of a capsule at the M. penetrans cell surface is of particular interest for a mycoplasma which has been shown to adhere to various host cells and to penetrate into their intracellular compartments. The capsule may have significance in the pathogenesis of disease associated with infection by this organism.

L6 ANSWER 31 OF 87 MEDLINE on STN DUPLICATE 10

ACCESSION NUMBER: 1998354165 MEDLINE DOCUMENT NUMBER: PubMed ID: 9689740

TITLE: Pasteurella haemolytica complicated respiratory

infections in sheep and goats.

AUTHOR: Brogden K A; Lehmkuhl H D; Cutlip R C

CORPORATE SOURCE: Respiratory and Neurologic Disease Research Unit, National

Animal Disease Center, Agricultural Research Service, U.S.

Department of Agriculture, Ames, IA 50010, USA.

SOURCE: Veterinary research, (1998 May-Aug) 29 (3-4) 233-54. Ref:

156

Journal code: 9309551. ISSN: 0928-4249.

PUB. COUNTRY: France

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199809

ENTRY DATE: Entered STN: 19980917

Last Updated on STN: 19980917 Entered Medline: 19980908

AB Respiratory infections which commonly occur in sheep and goats often result from adverse physical and physiological stress combined with viral and bacterial infections. Inevitably, Pasteurella haemolytica pneumonia occurs as a result of these interactions. review, we present recent advances in research on the complex etiology of pneumonia involving P. haemolytica. Initially stress, induced by factors such as heat, overcrowding, exposure to inclement weather, poor ventilation, handling and transport is a major predisposing factor. Respiratory viruses including parainfluenza 3 (PI-3) virus, adenovirus type 6 and respiratory syncytial virus (RSV), and to a lesser extent bovine adenovirus type 2, ovine adenovirus types 1 and 5, and reovirus type 1 cause respiratory infections and pneumonia. More importantly these viruses also dramatically increase the susceptibility of sheep and goats to secondary P. haemolytica infection. Primary infection of the lower respiratory tract, with Mycoplasma ovipneumoniae and Bordetella parapertussis can increase the susceptibility of sheep and goats to secondary P. haemolytica infection. It is possible that initial infections with viral or primary bacterial agents break down the antimicrobial barrier consisting of beta defensins and anionic peptides found in epithelial cells, resident and inflammatory cells, and serous and mucous secretions of the respiratory tract. Loss of barrier integrity may release P. haemolytica from its usual commensal status. Once in the lung, P. haemolytica becomes opportunistic. To grow and colonize, P. haemolytica uses extracellular products like O-sialoglycoprotein endopeptidase, neuraminidase and RTX leukotoxin, as well as cell-associated products such as capsular polysaccharide, lipopolysaccharide, outer membrane proteins, proteins involved in iron acquisition and a periplasmic superoxide dismutase. lambs and kids, pneumonic pasteurellosis can be acute, characterized by fever, listlessness, poor appetite and sudden death. Sheep and goats that survive the acute stage may recover or become chronically affected showing reduced lung capacity and weight gain efficiency and sporadic deaths may occur. This infection is detrimental to sheep and goats throughout the world and flocks and herds of small ranches, dairy operations, or large feedlots are all affected.

ANSWER 32 OF 87 MEDLINE on STN ACCESSION NUMBER: 1998019503 MEDLINE

DOCUMENT NUMBER:

PubMed ID: 9356671

TITLE:

CMV-induced anti-Sia-b1 cold agglutinin in an

immunocompromised patient.

Zilow G; Haffner D; Roelcke D AUTHOR:

Institut fur Immunologie, Ruprecht-Karls-Universitat CORPORATE SOURCE:

Heidelberg, Germany.

Beitrage zur Infusionstherapie und Transfusionsmedizin = SOURCE:

Contributions to infusion therapy and transfusion medicine,

(1997) 34 180-4.

Journal code: 9442459. ISSN: 1023-2028.

PUB. COUNTRY: Switzerland DOCUMENT TYPE: (CASE REPORTS)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199712

ENTRY DATE: Entered STN: 19980116

> Last Updated on STN: 19980116 Entered Medline: 19971230

In postinfection cold agglutination, certain cold agglutinin (CA) AB specificities are associated with distinct infectious agents.

combined occurrence of anti-I and anti-Sia-bl CAs following

Mycoplasma pneumoniae infection has been reported

recently. After renal transplantation and hyperacute graft rejection, transiently occurring CAs were observed in an 18-year-old boy. The CAs were characterized by serum cold absorption with sialidase

-treated red cells and warm elution from the cells. An anti-Sia-b1 CA could be differentiated from an accompanying low-liter anti-I. Fresh infections with Mycoplasma pneumoniae, Epstein-Barr

virus, rubella, and varicella viruses were excluded, but CMV infection was demonstrated. This is the first case of a postinfection anti-Sia-bl CA associated with CMV infection.

ANSWER 33 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on L₆

STN

ACCESSION NUMBER: 1996:139420 BIOSIS DOCUMENT NUMBER: PREV199698711555

Vaginal and cervical fluid sialidase activity TITLE:

associated with cervicovaginal microorganisms and preterm

labor.

AUTHOR (S): Pennacchi, L. [Reprint author]; Coata, G. [Reprint author];

De Domenico, P. [Reprint author]; Sensini, A.; Marangi, M.;

Tassi, C.; Di Renzo, G. C. [Reprint author]

Inst. Ob/Gyn, Univ. Perugia, Perugia, Italy CORPORATE SOURCE:

American Journal of Obstetrics and Gynecology, (1996) Vol. SOURCE:

174, No. 1 PART 2, pp. 400.

Meeting Info.: 16th Annual Meeting of the Society of Perinatal Obstetricians. Kamuela, Hawaii, USA. February

4-10, 1996.

CODEN: AJOGAH. ISSN: 0002-9378.

DOCUMENT TYPE: Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

Conference; (Meeting Poster)

LANGUAGE: English

ENTRY DATE: Entered STN: 3 Apr 1996

Last Updated on STN: 26 Apr 1996

ANSWER 34 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. L6

DUPLICATE 11 STN

ACCESSION NUMBER: 1996:422632 BIOSIS

DOCUMENT NUMBER: PREV199699153688

TITLE: Mechanisms and factors involved in Mycoplasma bovis adhesion to host cells.

AUTHOR(S): Sachse, Konrad [Reprint author]; Grajetzki, Christine; Rosengarten, Renate; Haenel, Ingrid; Heller, Martin;

Pfuetzner, Horst

CORPORATE SOURCE: Bundesinst. Gesundheitlichen Verbraucherschutz und

Veterinaermed., Fachbereich 4, Naumburger Str. 96a, D-07743

Jena, Germany

SOURCE: Zentralblatt fuer Bakteriologie, (1996) Vol. 284, No. 1,

pp. 80-92.

CODEN: ZEBAE8. ISSN: 0934-8840.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 26 Sep 1996

Last Updated on STN: 26 Sep 1996

Mycoplasma (M.) bovis cytadhesion was studied using permanent embryonic bovine lung (EBL) cells as host system. Adherence rates were found to be strongly dependent on temperature and the mycoplasma -to-EBL ratio near the point of saturation of the attachment isotherm was determined to be 225:1. Mild trypsinization of viable M. bovis cells caused a measurable decrease of adherence indicating that surface proteins, among them the P26 antigen, played a major part as adhesion factors. Neuraminidase treatment of mycoplasmas led to a drastic reduction of adherence rates, which emphasizes the importance of sialyl moieties in adhesive interactions. The ability of the P26 antigen, a hydrophilic 32-kDa protein, to function as an adhesin was confirmed using a competitive adherence assay, in which the HPLC-purified protein was shown to reduce mycoplasma adhesion. These data complement previous findings obtained with the corresponding monoclonal antibody (MAb) 4F6. In further inhibition experiments, it could be demonstrated that MAb 1E5, which is directed against a common epitope of at least three members of the Vsp (variable surface protein) family of M. bovis, was also capable of decreasing mycoplasma attachment to EBL cells. This is the first evidence of possible involvement of Vsps in cytadhesion. In an effort to identify more putative adhesion proteins of this organism, the reverse adherence screening assay was used, a procedure based on the specific binding of labelled mammalian tissue culture cells to Western-blotted mycoplasmal proteins.

L6 ANSWER 35 OF 87 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN DUPLICATE 12

ACCESSION NUMBER: 1995-00162 BIOTECHDS

TITLE: Recombinant avipox virus combining DNA which encodes a

polypeptide exhibiting antigenicity of Mycoplasma

gallisepticum;

e.g. varicella-zoster virus vector containing a gene encoding a fusion protein of an antigen with a Newcastle-

disease virus anchor peptide for use as a

recombinant vaccine

AUTHOR: Saito S; Ohkawa S; Saeki S; Ohsawa I; Funato H; Iritani Y;

Aoyama S; Takahashi K; Asamura K

PATENT ASSIGNEE: Japan-Zeon; Shionogi PATENT INFO: WO 9423019 13 Oct 1994 APPLICATION INFO: WO 1994-JP541 31 Mar 1994

PRIORITY INFO: JP 1993-245625 30 Sep 1993; JP 1993-74139 31 Mar 1993

DOCUMENT TYPE: Patent LANGUAGE: Japanese

OTHER SOURCE: WPI: 1994-333181 [41]

AB A new antigenic protein capable of reacting with Mycoplasma gallisepticum immune serum or infected serum is encoded by an M. gallisepticum gene with a specified restriction map, or is a variant with equivalent antigenicity. The antigen may be produced as a fusion protein with a signal membrane anchor of a type-II outer membrane protein of a bird virus at the 5'-terminus, using an avipox virus vector. The anchor sequence may be from a Newcastle-disease virus hemagglutinin-

neuraminidase gene. The DNA sequence encoding the fusion protein is specified. The recombinant avipox virus, recombinant antigen and fusion protein are useful in production of a live recombinant vaccine against M. gallisepticum infection. In an example, a live vaccine strain of varicella-zoster virus NP was used to infect a CEF cell culture monolayer at an MOI of 0.1, and after 3 hr cells were electroporated with plasmid pNZ7929-R1 (3.0 kV/cm, 0.4 msec and 25 deg). Cells with the plasmid were cultured for 72 hr at 37 deg, freeze-thawed and the recombinant virus was collected (fNZ7929-R1). (123pp)

L6 ANSWER 36 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1994:547464 BIOSIS DOCUMENT NUMBER: PREV199598007012

TITLE: Adherence of Ureaplasma urealyticum to human epithelial

cells.

AUTHOR(S): Smith, D. G. E.; Russell, W. C.; Thirkell, D. [Reprint

author]

CORPORATE SOURCE: Div. Cell Molecular Biol., Sch. Biological Med. Sci., Univ.

St. Andrews, Irvine Build., North St., St. Andrews, Fife

KY16 9AL, UK

SOURCE: Microbiology (Reading), (1994) Vol. 140, No. 10, pp.

2893-2898.

ISSN: 1350-0872.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 22 Dec 1994

Last Updated on STN: 22 Dec 1994

AB Adherence of Ureaplasma urealyticum cells to eukaryotic cell monolayers was quantified using the Bertholet assay to monitor ammonia produced from urea by ureaplasma urease. Adherence was abolished by pre-treatment of ureaplasmas with HeLa cell extracts and inhibited to varying degrees by pretreatment of the ureaplasmas with N-acetylneuraminic acid, specific antisera and monoclonal antibodies. The data suggest the presence of several ureaplasma adhesins, some of which are species- or serotype-specific and some of which are proteinaceous and antigenic. The serotype-8-specific 96 kDa surface-expressed antigen may be one adhesin. Pre-treatment of HeLa cell monolayers with neuraminidase significantly reduced ureaplasma adherence and, using a novel 'immunoblot adherence assay', ureaplasmas were shown to bind to a number of HeLa cell components, three of which appear to terminate in sialic acid.

L6 ANSWER 37 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. On STN DUPLICATE 13

ACCESSION NUMBER: 1994:272691 BIOSIS DOCUMENT NUMBER: PREV199497285691

TITLE: Microtiter plate adherence assay and receptor analogs for

Mycoplasma hyopneumoniae.

AUTHOR(S): Zhang, Qijing; Young, Theresa F.; Ross, Richard F. [Reprint

author]

CORPORATE SOURCE: Vet. Med. Research Inst., Iowa State Univ., 1802 Elwood

Dr., Ames, IA 50011, USA

SOURCE: Infection and Immunity, (1994) Vol. 62, No. 5, pp.

1616-1622.

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 24 Jun 1994

Last Updated on STN: 25 Jun 1994

AB A microliter plate adherence assay for Mycoplasma hyopneumoniae was established by use of purified swine tracheal cilia which contained receptors for the mycoplasmas. M. hyopneumoniae bound specifically to plates coated with solubilized cilia. The binding was dependent on both the concentration of cilia and the number of

mycoplasmas. Dextran sulfate, heparin, chondroitin. sulfate, laminin, mucin, and fucoidan significantly inhibited the binding of the mycoplasmas. The six inhibitors also disrupted the adherence of the mycoplasmas to intact ciliated cells. Preincubation with either mycoplasmas or cilia indicated that heparin, mucin, fucoidan, and chondroitin sulfate interacted with the adhesive molecules on the surface of the mycoplasmas, while laminin blocked the receptors in cilia. The basis for the inhibition induced by dextran sulfate was unknown. Treatment of cilia with neuraminidase appeared to promote adherence of the mycoplasmas, whereas treatment of cilia with sodium metaperiodate decreased binding. These results indicate that receptors for M. hyopneumoniae in the ciliated epithelium of the respiratory tract of pigs are glycoconjugate in nature.

L6 ANSWER 38 OF 87 MEDLINE on STN DUPLICATE 14

ACCESSION NUMBER: 94219513 MEDLINE DOCUMENT NUMBER: PubMed ID: 8166188

TITLE: Bacterial vaginosis is associated with prematurity and

vaginal fluid mucinase and sialidase: results of a controlled trial of topical clindamycin cream.

AUTHOR: McGregor J A; French J I; Jones W; Milligan K; McKinney P

J; Patterson E; Parker R

CORPORATE SOURCE: Department of Obstetrics and Gynecology, University of

Colorado Health Sciences Center, Denver 80262.

SOURCE: American journal of obstetrics and gynecology, (1994 Apr)

170 (4) 1048-59; discussion 1059-60. Journal code: 0370476. ISSN: 0002-9378.

PUB. COUNTRY: United States
DOCUMENT TYPE: (CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

(MULTICENTER STUDY)

(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 199405

ENTRY DATE: Entered STN: 19940606

Last Updated on STN: 19940606 Entered Medline: 19940526

AB OBJECTIVE: The pathogenesis of preterm birth and other adverse pregnancy outcomes linked with reproductive tract infection remains poorly understood. Mucolytic enzymes, including mucinases and sialidases (neuraminidase), are recognized virulence factors among enteropathogens and bacteria that cause periodontal infection. Perturbation of maternal cervicovaginal mucosa membrane host defenses by such enzyme-producing microorganisms may increase the risk of subclinical intrauterine infection during pregnancy and thus increase risks of preterm birth. STUDY DESIGN: We prospectively evaluated vaginal fluid mucinase and sialidase and selected cervicovaginal bacteria along with pregnancy outcomes in 271 women. Within this study, women with bacterial vaginosis (16 to 27 week' gestation) were treated with 2% clinadmycin vaginal cream or placebo. Enzyme, microbial findings, treatment effects, and pregnancy outcomes were compared among drug- and placebo-treated women and control women without bacterial vaginosis. RESULTS: Presence of bacterial vaginosis at intake was associated with increased risk of preterm birth (relative risk 3.3, 95% confidence interval 1.2 to 9.1, p = 0.02), premature rupture of membranes (relative risk 3.8, 95% confidence interval 1.6 to 9.0, p = 0.002), and preterm premature rupture of membranes. Mucinase and sialidase activities were more commonly identified, and they occurred in higher concentrations, if present, in women with bacterial vaginosis (mucinase: 44.3% with bacterial vaginosis vs 27.4% without, p = 0.007; sialidase: 45% with bacterial vaginosis vs 12% without p < 0.001). Sialidase activity was associated with bacterial vaginosis-linked organisms (Gardnerella vaginalis, Mobiluncus spp, and Mycoplasma

hominis) and Chlamydia trachomatis and yeast species; mucinase activity was associated only with bacterial vaqinosis-linked microorganisms. Clindamycin, 2% cream, was effective treatment for bacterial vaginosis and temporarily reduced mucinase and sialidase activities. Topical treatment of bacterial vaginosis did not reduce risks of perinatal morbidity. Women with persistent or recurrent sialidase 8 weeks after treatment were at increased risk of preterm birth (15.6% vs 7.4%) premature rupture of membranes (30% vs 15%), and low birth weight (20% vs 3%, relative risk 6.8, 95% confidence interval 1.6 to 28.1). Persistence of sialidase-producing vaginal microorganisms in numbers sufficient to increase vaginal fluid sialidase activity may be a risk factor for possibly preventable subclinical intrauterine infection and preterm birth. This study confirms and further informs our understanding of the association of bacterial vaginosis and preterm birth; studies to evaluate whether systemic treatment for bacterial vaginosis can effectively reduce vaginal mucolytic enzymes and risks of prematurity and other morbid outcomes are continuing.

L6 ANSWER 39 OF 87 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 94263061 EMBASE

DOCUMENT NUMBER: 1994263061

TITLE: Vaginitis including bacterial vaginosis.

AUTHOR: Eschenbach D.A.

CORPORATE SOURCE: Department of Obstetrics/Gynecology, University of

Washington, Seattle, WA 98195, United States

SOURCE: Current Opinion in Obstetrics and Gynecology, (1994) 6/4

(389-391).

ISSN: 1040-872X CODEN: COOGEA

COUNTRY: United States

DOCUMENT TYPE: Journal; General Review FILE SEGMENT: 004 Microbiology

010 Obstetrics and Gynecology

017 Public Health, Social Medicine and Epidemiology

037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

AB Bacterial vaginosis is a common lower genital tract infection.
Women with bacterial vaginosis have 100-1000 times more virulent bacterial per ml of vaginal flora than women without this infection. This tremendous increase in the concentration of bacteria has been recently associated with postpartum and posthysterectomy infection and preterm delivery.

L6 ANSWER 40 OF 87 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

DUPLICATE 15

ACCESSION NUMBER: 1993-11517 BIOTECHDS

TITLE: Recombinant swine-pox virus capable of replication;

contains foreign DNA encoding antigen and/or a selectable

marker; use ful as a recombinant vaccine

PATENT ASSIGNEE: Syntro

PATENT INFO: WO 9314194 22 Jul 1993 APPLICATION INFO: WO 1993-US324 13 Jan 1993 PRIORITY INFO: US 1992-820154 13 Jan 1992

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 1993-243210 [30]

AB Recombinant swine-pox virus (SPV) S-SPV-003 (ATCC VR 2335), S-SPV-008 (ATCC VR 2339) and S-SPV-009 (ATCC 2344) are claimed. The SPVs replicate in an animal, when introduced as SPV DNA containing foreign DNA (I) in an insertion site not required for replication (SPV thymidine-kinase gene or AccI site within a HindIII-BglII fragment of SPV) und er the control of an SPV promoter. (I) encodes an antigen (Ag) e.g.

pseudorabies virus glycoprotein 50 (A), glycoprotein-II, -III or -H, transmissible-gastroenteritis virus qlycoprotein 195 or matrix protei n, pig rota virus glycoprotein 38, pig parvo virus capsid protein, Se rpulina hyodysenteriae protective Ag, cattle diarrhea virus glycoprot ein 55, Newcastle-disease virus hemagglutinin-neuraminidase (B), pig influenza virus hemagglutinin or neuraminidase, foot-and-mouth-diseas e virus Ag, pig cholera virus Ag, African-pig-fever virus Aq or Mycop lasma hyopneumoniae Aq, especially (A) or (B) or a selectable marker (Escherichia coli beta-galactosidase (EC-3.2.1.23)). vector, a rec ombinant SPV vaccine, a method for immunization and Vero or EMSK cell s infected with SPV are also new. (100pp)

ANSWER 41 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on L6 STN

ACCESSION NUMBER:

1993:523306 BIOSIS DOCUMENT NUMBER: PREV199396136713

TITLE:

Protection of mice from Sendai virus infections

by recombinant vaccinia viruses: Effects of the inoculation routes on their replication sites in mice and induction of

local respiratory immunity.

AUTHOR (S):

Takao, Shin-Ichi

CORPORATE SOURCE:

Dep. Bacteriol., Hiroshima Univ. Sch. Med., Hiroshima,

Japan

SOURCE:

Medical Journal of Hiroshima University, (1993) Vol. 41,

No. 4, pp. 243-257.

CODEN: HDIZAB. ISSN: 0018-2087.

DOCUMENT TYPE:

Article

LANGUAGE:

Japanese

ENTRY DATE:

Entered STN: 19 Nov 1993

Last Updated on STN: 19 Nov 1993

The present study was undertaken to examine protection of mice from Sendai virus infections by the recombinant vaccinia viruses expressing the hemagglutinin-neuraminidase and fusion proteins of Sendai virus, Vac-HN and Vac-F, respectively. Since vaccinia virus causes a systemic infection in animals, this study was especially focused on investigating effects of the inoculation routes (intraperitoneal and intranasal) on their replication sites in mice and induction of local respiratory immunity against Sendai virus. Vac-HN inoculated intraperitoneally was found to reach the lung and nasal turbinate. Immunohistochemistry of those organs showed, however, that its replication site was exclusively in the tooth germ, and that no vaccinia virus antigens were detected in the mucosal layer of respiratory tract where significant amounts of the antigens were detected of the intranasally inoculated mice. When Sendai virus was intranasally challenged to the mice immunized with either Vac-HN or Vac-F, replication of the challenged virus was almost completely suppressed both in the lung and in the nasal turbinate of the intranasally immunized mice, while the suppression was only partial in the lung of the intraperitoneally immunized mice, and nearly no suppression was observed in the nasal turbinate. The primary and secondary responses of Sendai virusspecific IgG and IgA antibodies and IgG- and IgA-producing cells were examined in the respiratory secretions and in the mucosal layer of nasal turbinate, respectively, in the mice immunized with either Vac-HN or Vac-F. The results showed that the secondary responses of the antibodies and cells evidently occurred only in the intranasally immunized mice on the challenge Sendai virus infection, suggesting strongly that replication of the recombinant virus in the mucosal layer of respiratory tract is required for induction of the local respiratory immunity. The present study, therefore, indicates that the parenteral inoculation of the recombinant vaccinia virus is not enough to induce effective local respiratory immunity in mice because of its insufficient growth in the respiratory mucosal layer even though its pantropic nature.

on STN

ACCESSION NUMBER: 92:616443 SCISEARCH

THE GENUINE ARTICLE: JT978

TITLE: IDENTIFICATION OF N-ACETYLNEURAMINYL ALPHA-2-]3

POLY-N-ACETYLLACTOSAMINE GLYCANS AS THE RECEPTORS OF

SIALIC ACID-BINDING STREPTOCOCCUS-SUIS STRAINS

AUTHOR: LIUKKONEN J; HAATAJA S; TIKKANEN K; KELM S; FINNE J

(Reprint)

CORPORATE SOURCE: UNIV TURKU, DEPT MED BIOCHEM, KIINAMYLLNKATU 10, SF-20520

TURKU 52, FINLAND; UNIV KUOPIO, DEPT BIOCHEM & BIOTECHNOL, SF-70211 KUOPIO, FINLAND; UNIV CALIF LOS ANGELES, SCH MED, DEPT BIOL CHEM, LOS ANGELES, CA, 90024; UNIV KIEL, INST

BIOCHEM, W-2300 KIEL 1, GERMANY

COUNTRY OF AUTHOR: FINLAND; USA; GERMANY

SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (15 OCT 1992) Vol. 267,

No. 29, pp. 21105-21111.

ISSN: 0021-9258.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: LIFE
LANGUAGE: ENGLISH
REFERENCE COUNT: 50

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Streptococcus suis is a common cause of sepsis, meningitis, and other serious infections in young piglets and also causes meningitis in humans. The cell-binding specificity of sialic acid-recognizing strains of Streptococcus suis was investigated. Treatment of human erythrocytes with sialidase or mild periodate abolished hemagglutination. Hemagglutination inhibition experiments with sialyl oligosaccharides indicated that the adhesin preferred the sequence NeuN Acalpha2-3Galbeta1-4Glc(NAc). Resialylation of desialylated erythrocytes with Galbeta1-3(4)GlcNAc alpha2-3-sialyltransferase induced a strong hemagglutination, whereas no or only weak hemagglutination was obtained with cells resialylated with two other sialyltransferases. Binding of radiolabeled bacteria to blots of erythrocyte membrane proteins revealed binding to the poly-N-acetyllactosamine-containing components Band 3, Band 4.5, and polyglycosyl ceramides and to glycophorin A. The involvement of glycophorin A as a major ligand was excluded by the strong hemagglutination of trypsin-treated erythrocytes and En(a-) erythrocytes defective in glycophorin A. Sensitivity of the hemagglutination toward endo-beta-galactosidase treatment of erythrocytes and inhibition by purified poly-N-acetyllactosaminyl glycopeptides indicated that the adhesin bound to glycans containing the following structure: NeuNAcalpha2-3Galbeta1-4GlcNAcbeta1-3Galbeta1-

L6 ANSWER 43 OF 87 MEDLINE on STN DUPLICATE 16

ACCESSION NUMBER: 92104699 MEDLINE DOCUMENT NUMBER: PubMed ID: 1370278

TITLE: Characterization of I/F1 glycoprotein as a receptor for

Mycoplasma pneumoniae.

AUTHOR: Hengge U R; Kirschfink M; Konig A L; Nicklas W; Roelcke D CORPORATE SOURCE: Institute of Immunology, University of Heidelberg, Germany.

SOURCE: Infection and immunity, (1992 Jan) 60 (1) 79-83.

Journal code: 0246127. ISSN: 0019-9567.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199202

ENTRY DATE: Entered STN: 19920302

Last Updated on STN: 19970203 Entered Medline: 19920212

AB Serologic evidence of anti-I and anti-Fl cold agglutinins occurring in mycoplasma infections led to the isolation of I/Fl glycoprotein from human erythrocyte membranes. Mycoplasma

pneumoniae bound to purified I/Fl glycoprotein in a dose-dependent fashion depending on sialylated carbohydrate determinants. This was shown by the decreased binding of mycoplasmas to either sialidase

-treated I/Fl glycoprotein (dot blot analysis) or sialidase

-treated erythrocytes (hemagglutination test). Structural properties of the receptor for optimal binding could be explored by hemagglutination inhibition assays. Glycophorins were excluded as receptors. These results indicate that Fl (and I) antigens are receptors for M. pneumoniae.

L6 ANSWER 44 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1991:115202 BIOSIS

DOCUMENT NUMBER: PREV199191062592; BA91:62592

TITLE: ADHERENCE OF UREAPLASMA-UREALYTICUM TO HUMAN ERYTHROCYTES.
AUTHOR(S): SAADA A-B [Reprint author]; TERESPOLSKI Y; ADONI A; KAHANE

Ι

CORPORATE SOURCE: DEP MEMBRANE, ULTRASTRUCTURE RES, HEBREW UNIV-HADASSAH MED

SCH, JERUSALEM 91010

SOURCE: Infection and Immunity, (1991) Vol. 59, No. 1, pp. 467-469.

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article

FILE SEGMENT: BA LANGUAGE: ENGLISH

ENTRY DATE: Entered STN: 27 Feb 1991

Last Updated on STN: 27 Feb 1991

AB Ureaplasma urealyticum (four serotypes and two clinical isolates) were metabolically labeled with radioactive methionine to a high specific activity. Labeling allowed the study of the mechanism of adherence to human erythrocytes. The adherence mechanism was complex and partially mediated by proteinaceous surface components. The binding sites on the erythrocytes were partially sensitive to neuraminidase treatment, and adherence was inhibited by glycophorin and dextran sulfate, indicating recognition of sialyl residues and sulfated compounds.

L6 ANSWER 45 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

stn

ACCESSION NUMBER: 1991:5754 BIOSIS

DOCUMENT NUMBER: PREV199191005754; BA91:5754

TITLE: GLYCOSIDASE ACTIVITIES OF MYCOPLASMAS.

AUTHOR(S): KAHANE I [Reprint author]; REISCH-SAADA A; ALMAGOR M;

ABELIUCK P; YATZIV S

CORPORATE SOURCE: DEP MEMBRANE ULTRASTRUCTURE RES, HEBREW UNIV-HADASSAH MED

SCH, PO BOX 1172, JERUSALEM 91010, ISRAEL

SOURCE: Zentralblatt fuer Bakteriologie, (1990) Vol. 273, No. 3,

pp. 300-305.

CODEN: ZEBAE8. ISSN: 0934-8840.

DOCUMENT TYPE: Article FILE SEGMENT: BA

LANGUAGE: ENGLISH

ENTRY DATE: Entered STN: 8 Dec 1990

Last Updated on STN: 9 Dec 1990

The activities of α - and β -glucosidase, β -galactosidase and β -N acetylglucosaminidase were assessed at acidic pH by fluorimetry using the appropriate 4-methylumbelliferyl substrate in four Mycoplasma species (M. pneumoniae, M. gallisepticum, M. hominis and M. capricolum) and in Acholeplasma laidlawii. The glycosidase activities were in a low range (0.1-4.2 nmole per h per mg protein) with the exception of higher activities of β -N-acetylglucosaminidase in A. laidlawii. The enzyme levels of a virulent and a nonvirulent strain of M. pneumoniae were comparable. Despite the very sensitive assay, neuraminidase activity was not detected in M. pneumoniae and M. gallisepticum. No induction of α -glucosidase could be demonstrated for M. pneumoniae or A. laidlawii. At least part of the glucosidase activities was localized in the membrane fraction of all

mycoplasmas studied. This may support the hypothesis that pathogenic mycoplasmas, being membrane parasites, may modify, by their glycosidases, some host cell glycoconjugates. However, our study did not dintinguish the pathogenic mycoplasmas to possess a characteristic glycosidase profile.

L6 ANSWER 46 OF 87 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:1768 HCAPLUS

DOCUMENT NUMBER: 114:1768

TITLE: A recombinant Marek's disease virus and its

use as a live multifunctional vaccine

INVENTOR(S): Ishikawa, Toyokazu; Manabe, Sadao; Mori, Chisato;

Takamizawa, Akihisa; Yoshida, Iwao; Osame, Juichiro;

Takaku, Keisuke; Fukai, Konosuke

PATENT ASSIGNEE(S): Research Foundation for Microbial Diseases, Osaka

University, Japan

SOURCE: Eur. Pat. Appl., 59 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 334530	A1	19890927	EP 1989-302485	19890314
EP 334530	B1	19950118		
R: AT, BE, CH,	DE, ES	, FR, GB,	GR, IT, LI, LU, NL, SE	
JP 02291277	A2	19901203	JP 1988-230851	19880914
JP '2779447	B2	19980723		
ES 2066842	T 3	19950316	ES 1989-302485	19890314
CA 1340243	A1	19981215	CA 1989-593826	19890315
AU 8931428	A1	19890921	AU 1989-31428	19890317
AU 619812	B2	19920206		
HU 52555	A2	19900728	HU 1989-1319	19890320
US 5650153	Α	19970722	US 1994-293337	19940824
PRIORITY APPLN. INFO.:			JP 1988-66973	A 19880320
			JP 1988-230851	A 19880914
			US 1989-324064	B1 19890316
			US 1992-948469	Bl 19920922

AB Attenuated Marek's disease virus (MDV) and the related herpesvirus of turkey (HVT) are used to express genes for heterologous antigens in avian systems. This allows their use as a general-purpose live vaccine for domestic fowl. Genes for antigens of HVT and Newcastle disease virus (the hemagglutinin-neuraminidase gene) were cloned into attenuated HVT and MDV and recombinant virus used to vaccinate chickens. After antibody titers had been established all chickens challenged with the appropriate virus were resistant. All animals in the control groups died upon infection with a comparable inoculum.

L6 ANSWER 47 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN

ACCESSION NUMBER: 1989:382654 BIOSIS

DOCUMENT NUMBER: PREV198988063244; BA88:63244

TITLE: HEMAGGLUTINATION AND HEMAGGLUTINATION INHIBITION OF TURKEY

RED BLOOD CELLS WITH MYCOPLASMA-HYOPNEUMONIAE.

AUTHOR(S): YOUNG T F [Reprint author]; ERICKSON B Z; ROSS R F;

WANNEMUEHLER Y

CORPORATE SOURCE: VET MED RES INST, IOWA STATE UNIV, AMES, IOWA 50011, USA

SOURCE: American Journal of Veterinary Research, (1989) Vol. 50,

No. 7, pp. 1052-1055.

CODEN: AJVRAH. ISSN: 0002-9645.

DOCUMENT TYPE: Article

FILE SEGMENT:

BA

LANGUAGE:

ENGLISH

ENTRY DATE:

Entered STN: 17 Aug 1989

Last Updated on STN: 17 Aug 1989

AB The ability of Mycoplasma hyopneumoniae to agglutinate RBC was evaluated to develop an in vitro cytadsorption assay. Using swine RBC in a microtitration hemagglutination test, no agglutination or partial agglutination was detected. Comparison of RBC from various other species indicated that improved hemagglutination was obtained with RBC from turkeys. This hemagglutination was detected only when mycoplasma cells used in the assay had been frozen and thawed, heated at 50 C for 30 minutes, or treated with trypsin. Treatment of RBC with trypsin or neuraminidase enhanced hemagglutination. Possible surface lectin activity in M hyopneumoniae was evaluated by use of carboydrates in a blocking assay; hemagglutination was not inhibited by any of 13 carboydrates evaluated. Mycoplasma hyopneumoniae convalescent porcine serum and monoclonal antibodies against 2 M hyopneumoniae immunogens of molecular weights of 64,000 and 41,000 inhibited hemagglutination.

L6 ANSWER 48 OF 87 MEDLINE ON STN ACCESSION NUMBER: 88032236 MEDLINE DOCUMENT NUMBER: PubMed ID: 3312097

TITLE:

Attachment of Mycoplasma hominis to human cell

cultures.

COMMENT:

Erratum in: Isr J Med Sci 1987 Aug;23(8):preceding 869 Izumikawa K; Chandler D K; Grabowski M W; Barile M F

CORPORATE SOURCE:

Sasebo General Hospital, Japan.

SOURCE:

Israel journal of medical sciences, (1987 Jun) 23 (6)

603-7.

Journal code: 0013105. ISSN: 0021-2180.

PUB. COUNTRY:

Israel

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

198712

ENTRY DATE:

Entered STN: 19900305

Last Updated on STN: 19970203 Entered Medline: 19871215

AB Clinical isolates, cell-culture contaminants, and the type strain PG21 of Mycoplasma hominis were examined for attachment to erythrocytes and human cell cultures. Strain 13428 (from blood, postpartum fever) and strain 1184 (cell culture) attached to human and guinea pig erythrocytes, but there were no differences in attachment activities between these strains. However, five M. hominis strains isolated from different tissue sites showed quantitative differences in attachment to human WiDr (intestinal carcinoma cell cultures), MRC-5 (human embryonic lung fibroblasts) and HeLa (carcinoma of cervix) cell cultures. The relative attachment activities were, in descending order: strain 1184 (cell culture), strain 11932 (cervix), strain 13428 (blood, postpartum fever), 13408 (nongonococcal urethritis), and type strain PG21 (multiple passage, originally from human rectum). Trypsin and pronase treatment of M. hominis strain 1184 markedly reduced attachment, suggesting that surface proteins play a role in M. hominis attachment to mammalian cells. In subsequent studies, strain 1620 (septic arthritis) showed the highest attachment activity, whereas strain 1652 (surgical skin flap) and L01888 (cell culture) showed attachment activity similar to cell culture strain 1184. The differing attachment activities of these M. hominis strains isolated from different infected sites of patients with a variety of diseases may be relevant to the virulence of these strains.

L6 ANSWER 49 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN

ACCESSION NUMBER: 1988:216355 BIOSIS

DOCUMENT NUMBER: PREV198834109365; BR34:109365

TITLE: INTERACTIONS OF MYCOPLASMA-BOVOCULI STRAINS WITH

ERYTHROCYTES.

AUTHOR (S): SALIH B A [Reprint author]; ROSENBUSCH R F

CORPORATE SOURCE: IOWA STATE UNIV, AMES, IOWA, USA

SOURCE: Israel Journal of Medical Sciences, (1987) Vol. 23, No. 5,

Meeting Info.: SIXTH INTERNATIONAL CONGRESS OF THE

INTERNATIONAL ORGANIZATION FOR MYCOPLASMOLOGY, BIRMINGHAM,

ALABAMA, USA, AUGUST 26-31, 1986. ISR J MED SCI.

CODEN: IJMDAI. ISSN: 0021-2180.

DOCUMENT TYPE: Conference; (Meeting)

FILE SEGMENT:

LANGUAGE:

ENGLISH

Entered STN: 25 Apr 1988 ENTRY DATE:

Last Updated on STN: 25 Apr 1988

L6 ANSWER 50 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1988:113383 BIOSIS

DOCUMENT NUMBER:

PREV198885058853; BA85:58853

TITLE:

INTERACTION OF MYCOPLASMA-MOBILE 163K WITH

ERYTHROCYTES.

AUTHOR (S):

FISCHER M [Reprint author]; KIRCHHOFF H

CORPORATE SOURCE:

INST FUER MIKROBIOL UND TIERSEUCHEN DER TIERAERZTLICHEN

HOCHSCHULE, BISCHOFSHOLER DAMM 15, D-3000 HANNOVER

SOURCE:

Zentralblatt fuer Bakteriologie Mikrobiologie und Hygiene

Series A, (1987) Vol. 266, No. 3-4, pp. 497-505.

CODEN: ZBMPEJ. ISSN: 0176-6724.

DOCUMENT TYPE:

Article RΔ

FILE SEGMENT:

ENGLISH

LANGUAGE: ENTRY DATE:

Entered STN: 23 Feb 1988

Last Updated on STN: 23 Feb 1988

Mycoplasma (M.) mobile 163K isolated from fish was investigated for its hemadsorbing, hemagglutinating, and hemolysing capacities and for its ability to adhere to erythrocytes. Hemadsorption to the colonies of M. mobile occurred with ovine, bovine, equine, trout, and carp erythrocytes and was inhibited by treatment of the mycoplasmas with substances acting on proteins (pronase, trypsin, glutaraldehyde), heat, UV-irradiation and homologous antiserum. Hemadsorption could be prevented also by treatment of the erythrocytes with neuraminidase In liquid medium ovine erythrocytes were agglutinated and afterwards lysed by M. mobile. The erythrocytes which were adsorbed to the colonies of M. mobile were finally lysed also. Darkfield preparations showed the

ability of M. mobile to adhere to erythrocytes and also its

hemagglutinating properties.

ANSWER 51 OF 87 MEDLINE on STN

ACCESSION NUMBER: 86149426 MEDLINE DOCUMENT NUMBER: PubMed ID: 3081908

TITLE: Mycoplasma pneumoniae attachment to

glutaraldehyde-treated human WiDr cell cultures.

AUTHOR: Izumikawa K; Chandler D K; Barile M F

SOURCE: Proceedings of the Society for Experimental Biology and

Medicine. Society for Experimental Biology and Medicine

DUPLICATE 17

(New York, N. Y.), (1986 Apr) 181 (4) 507-11.

Journal code: 7505892. ISSN: 0037-9727.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE)

DOCUMENT TYPE: LANGUAGE:

English

FILE SEGMENT: Priority Journals

ENTRY MONTH:

198604

ENTRY DATE: Entered STN: 19900321 Last Updated on STN: 19900321 Entered Medline: 19860418

AB Attachment of Mycoplasma pneumoniae to host cells initiates disease, and the attachment components may represent important protective immunogens for preventing disease. We have studied the mechanisms of attachment using in vitro cell culture systems and selected pathogenic and nonpathogenic strains of M. pneumoniae. Attachment of the pathogenic strains M129 and PI-1428 was several fold greater than attachment of the nonpathogenic strain, and attachment of strains M129 and PI-1428 was reduced by 21 to 63% when human WiDr cell monolayers were exposed to neuraminidase, supporting the concept that M. pneumoniae attaches to mammalian cells by a neuraminidase -sensitive glycoconjugate. While attachment of the two pathogenic strains was markedly reduced by treating the WiDr cells with glutaraldehyde, glutaraldehyde treatment produced minimal effects on the attachment of the nonpathogenic strain B176. Glutaraldehyde treatment also altered the temperature dependence of attachment by the pathogenic strains. Because glutaraldehyde-treated WiDr cell monolayers showed little difference in attachment between pathogenic and nonpathogenic strains, glutaraldehyde-treated cells are not appropriate cell substrates for studying M. pneumoniae attachment mechanisms or identifying immunogens for vaccine development.

ANSWER 52 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. L6

ACCESSION NUMBER: 1986:281156 BIOSIS

DOCUMENT NUMBER: PREV198682025019; BA82:25019

TITLE: DETECTION AND DIFFERENTIATION OF MYCOPLASMA

-GALLISEPTICUM AND MYCOPLASMA-SYNOVIAE ANTIBODIES

IN CHICKEN SERUM USING ELISA.

AUTHOR (S): HIGGINS P A [Reprint author]; WHITHEAR K G

CORPORATE SOURCE: DEPARTMENT VETERINARY PARACLINICAL SCIENCES, UNIVERSITY

MELBOURNE PARKVILLE, VICTORIA 3052, AUSTRALIA

SOURCE: Avian Diseases, (1986) Vol. 30, No. 1, pp. 160-168.

CODEN: AVDIAI. ISSN: 0005-2086.

DOCUMENT TYPE: Article

FILE SEGMENT: RΑ

LANGUAGE:

ENGLISH

ENTRY DATE:

Entered STN: 4 Jul 1986

Last Updated on STN: 4 Jul 1986

AB Affinity-purified sheep IgG anti-chicken IgG horseradish peroxidase conjugate was utilized in an ezyme-linked immunosorbent assay (ELISA) to detect Mycoplasma gallisepticum- and M. synoviae-specific antibodies in chicken sera. Antigen, conjugate and substrate concentrations, and incubation times were adjusted to provide maximum differentiation between positive and negative sera. Use of phosphate-buffered saline containing 0.05% Tween 20 for washing and diluting steps and use of normal sheep serum to make the initial 1:10 serum dilution resulted in optimal differentiation between homologous and heterologous antisera. However, sera known to contain antibodies to M. gallisepticum or M. synoviae gave higher absorbance values with the heterologous antigen than did specific-pathogen-free sera. To reduce the frequency of nonspecific reactions to less than 2% it was necessary to adjust the threshold absorbance for each antigen according to the known infectious status of the flock. Reproducibility of the assay was maintained by using positive and negative control sera on each plate. Results from 14.2% of the plates tested were rejected, because the endpoint of the positive control serum was more than one dilution from the most common value. Of four strains of M. gallisepticum used as antiqens, none was clearly superior to the others in producing maximum titers with a range of M. gallisepticum antisera. However, nonspecific absorbance tended to be less with the S6 strain. The stability of M. gallisepticum-coated plates was maintained for up to 6 months at -8 C or below, whereas M. synoviae-coated plates were stored satisfactorily for 6

months at 4 C or below. No correlation could be found between the nonspecific absorbance reading of an individual serum and its absorbance to bovine IgG or its specific ELISA titer. Nonspecific reactions were not reduced by heat inactivation, mercaptoethanol or neuraminidase treatment, or delipidization of serum.

L6 ANSWER 53 OF 87 MEDLINE ON STN ACCESSION NUMBER: 86108757 MEDLINE DOCUMENT NUMBER: PubMed ID: 3943586

TITLE: Anaplasma marginale, Eperythrozoon wenyoni: lectin

reactions with bovine erythrocytes.

AUTHOR: Goff W L; Johnson L W; Kuttler K L

SOURCE: Experimental parasitology, (1986 Feb) 61 (1) 103-13.

Journal code: 0370713. ISSN: 0014-4894.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198603

ENTRY DATE: Entered STN: 19900321

Last Updated on STN: 19980206 Entered Medline: 19860312

Normal bovine erythrocytes were agglutinated with four of five lectins AB specific for different oligosaccharides. The order of reactivity was wheat germ greater than ricin greater than soybean greater than peanut. Concanavalin A did not agglutinate normal bovine erythrocytes. After neuraminidase treatment of normal bovine erythrocytes, each lectin agglutinated the cells with decreased concentrations of lectin, verifying that partial removal of sialic acid exposes more of each lectin's binding sites or alters the binding site such that fewer molecules of lectin are required to initiate agglutination. A change in agglutination of erythrocytes using soybean agglutinin and peanut agglutinin occurred when cells were obtained from cattle infected with Eperythrozoon wenyoni. The results suggested that an alteration in erythrocyte membranes occurred as a result of this infection as manifested by the increased recognition of both the soybean agglutinin and peanut agglutinin receptor carbohydrates. A similar effect was indicated with erythrocytes obtained during an acute Anaplasma marginale infection; however, an ensuing reticulocytosis masked the effect, requiring the use of fluoresceinated lectins to verify that increased binding of each lectin occurred with infected cells when compared to normal cells.

L6 ANSWER 54 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN

ACCESSION NUMBER: 1985:426276 BIOSIS

DOCUMENT NUMBER: PREV198580096268; BA80:96268

TITLE: ATTACHMENT OF MYCOPLASMA-PULMONIS TO RAT AND

MOUSE SYNOVIAL CELLS CULTURED IN-VITRO.

AUTHOR(S): ARAAKE M [Reprint author]; YAYOSHI M; YOSHIOKA M

CORPORATE SOURCE: DEP OF MICROBIOLOGY, TOKYO WOMEN'S MED COLL, KAWADA-CHO,

SHINJUKU-KU, TOKYO 162

SOURCE: Microbiology and Immunology, (1985) Vol. 29, No. 7, pp.

601-608.

CODEN: MIIMDV. ISSN: 0385-5600.

DOCUMENT TYPE: Article FILE SEGMENT: BA

LANGUAGE: ENGLISH

The attachment of M. pulmonis m53 organisms to mouse and rat synovial cells was examined by using the organisms and the synovial cells treated in various ways. M. pulmonis treated with trypsin attached to the synovial cells, but the organisms treated with pronase, formaldehyde, glutaraldehyde, or heat did not. These findings suggest that the sites for binding M. pulmonis to the mouse and rat synovial cells are of polypeptide nature. Treatment of M. pulmonis with sialic acid and

treatment of the synovial cell sheets with neuraminidase did not affect the attachment. The synovial cell surface for receptors M. pulmonis organisms would be different from those on respiratory cells or erythrocytes for M. pneumoniae or M. gallisepticum. Even nonviable organisms and M. pulmonis membranes attached to the mouse or rat synovial cels. The nature of the receptor of mouse synovial cells would be different from that of rat cells, since rat cells were affected by treatment with formaldehyde or glutaraldehyde, but mouse cells were not.

ANSWER 55 OF 87 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED. L6

on STN

ACCESSION NUMBER: 85023914 EMBASE

DOCUMENT NUMBER:

1985023914

TITLE:

Autoimmune hemolytic anemia by coexisting anti-I and

anti-F1 cold agglutinins.

AUTHOR:

Konig A.L.; Kather H.; Roelcke D.

CORPORATE SOURCE:

Institute for Immunology and Serology, University of

Heidelberg, D-6900 Heidelberg, Germany

SOURCE:

Blut, (1984) 49/5 (363-368).

CODEN: BLUTA

COUNTRY: DOCUMENT TYPE: Germany Journal

025 Hematology

FILE SEGMENT:

Immunology, Serology and Transplantation 026

LANGUAGE: English

In association with atypical pneumonia, a patient developed acute severe AB autoimmune hemolytic anemia. Hemoglobin temporarily was only 7.0 g/100 ml, so that the patient needed red blood cell (RBC) transfusion. Hemolysis was found to be caused by high titer cold agglutinins (CA), which occurred transiently during the acute period of the disease. CA of two different specificities, anti-I and anti-F1, were demonstrated in the patient's serum. Antibodies of the two specificities were clearly separated by absorption/elution experiments using neuraminidase (RDE) - treated RBC. They were distinguished by serologic means: Both anti-I and anti-F1 react more strongly with adult RBC than with newborn and adult RBC; in contrast to anti-I, anti-F1 does not agglutinate RDE-treated cells. Inhibition experiments showed that I-active substances prepared from papainized RBC exhibited both I and F1 antigenic activity. By RDE-treatment of I-active substances, F1-activity was markedly reduced, while I-activity was increased.

L6 ANSWER 56 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1983:253856 BIOSIS

DOCUMENT NUMBER: PREV198376011348; BA76:11348

TITLE:

HEM ADSORPTION AND VIRULENCE ARE SEPARABLE PROPERTIES OF

MYCOPLASMA-PNEUMONIAE.

AUTHOR (S): LEITH D K [Reprint author]; HANSEN E J; WILSON R M; KRAUSE

D C; BASEMAN J B

CORPORATE SOURCE: DEP MICROBIOL, UNIV TEX HEALTH SCI CENT, SAN ANTONIO, TEX

78248, USA

SOURCE: Infection and Immunity, (1983) Vol. 39, No. 2, pp. 844-850.

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article FILE SEGMENT: LANGUAGE: ENGLISH

A selective enrichment technique was used to isolate a hemadsorption-positive revertant of a hemadsorption-negative mutant strain of M. pneumoniae. This hemadsorption-positive revertant simultaneously regained both the ability to attach to neuraminidase-sensitive receptors on the tracheal ring respiratory epithelium in vitro and the ability to synthesize 3 virulent-strain-specific proteins which were not synthesized by the hemadsorption-negative mutant. Despite the persistence of the revertant in hamster lung tissue for 9-12 wk postinfection, no

cytopathology was observed. Intranasal inoculation of the revertant provided limited protection against a challenge dose of virulent M. pneumoniae.

L6 ANSWER 57 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1983:253854 BIOSIS

DOCUMENT NUMBER: PREV198376011346; BA76:11346

TITLE: REACQUISITION OF SPECIFIC PROTEINS CONFERS VIRULENCE IN

MYCOPLASMA-PNEUMONIAE.

AUTHOR(S): KRAUSE D C [Reprint author]; LEITH D K; BASEMAN J B

CORPORATE SOURCE: DEP MICROBIOL, UNIV TEX HEALTH SCI CENT, SAN ANTONIO, TEX

78284. USA

SOURCE: Infection and Immunity, (1983) Vol. 39, No. 2, pp. 830-836.

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article FILE SEGMENT: BA LANGUAGE: ENGLISH

AB Hemadsorbing revertants were isolated from spontaneous

hemadsorption-negative, avirulent mutants of M. pneumoniae. The revertants simultaneously reacquired specific proteins absent in their homologous mutants, along with **neuraminidase**-sensitive adherence to the hamster respiratory epithelium and virulence. Peptide mapping and

immunological analysis indicated no precursor-product relationships among certain of these proteins.

L6 ANSWER 58 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. or

STN

ACCESSION NUMBER: 1982:238392 BIOSIS

DOCUMENT NUMBER: PREV198274010872; BA74:10872

TITLE: IDENTIFICATION OF MYCOPLASMA-PNEUMONIAE PROTEINS

ASSOCIATED WITH HEM ADSORPTION AND VIRULENCE.

AUTHOR(S): KRAUSE D C [Reprint author]; LEITH D K; WILSON R M; BASEMAN

J B

CORPORATE SOURCE: DEP MICROBIOL, UNIV TEXAS HEALTH SCI CENT, SAN ANTONIO, TEX

78284, USA

SOURCE: Infection and Immunity, (1982) Vol. 35, No. 3, pp. 809-817.

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article FILE SEGMENT: BA LANGUAGE: ENGLISH

Twenty-two mutants of M. pneumoniae spontaneously deficient in AB hemadsorption were isolated. Examination of mutant protein profiles by 1and 2-dimensional polyacrylamide gel electrophoresis permitted the grouping of these mutants into 4 classes. The largest class of mutants was deficient in 4 high-MW proteins (215,000, 210, $\overline{0}$ 000, 190,000 and 140,000). A 2nd class of mutants lacked 3 proteins previously designated A, B and C (72,000, 85,000 and 37,000, respectively). A single mutant, in addition to lacking proteins A, B and C, was missing a 4th protein of 165,000 MW. The remaining mutants exhibited protein profiles apparently identical to that of the wild-type strain. All mutant strains attached to the respiratory epithelium of hamster tracheal rings in vitro at reduced levels; however, mutants lacking proteins A, B and C recognized only neuraminidase-insensitive receptors. None of the mutants tested produced detectable pneumonia in intranasally inoculated hamsters, although 1 mutant class demonstrated low-level survival in vivo.

L6 ANSWER 59 OF 87 MEDLINE on STN DUPLICATE 18

ACCESSION NUMBER: 83016243 MEDLINE DOCUMENT NUMBER: PubMed ID: 6812201

TITLE: A review of the morphological and biochemical features of

the attachment process in infections with

Mycoplasma pneumoniae.

AUTHOR: Gabridge M G

CONTRACT NUMBER: AI 12559 (NIAID)

HL 23806 (NHLBI)

SOURCE: Reviews of infectious diseases, (1982 May-Jun) 4 Suppl

S179-84.

Journal code: 7905878. ISSN: 0162-0886.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198212

ENTRY DATE: Entered STN: 19900317

Last Updated on STN: 19970203 Entered Medline: 19821202

AB Mycoplasma pneumoniae must attach to respiratory tract cells to cause primary atypical pneumoniae. The attachment process involves a receptor site on the external membrane surface of the host cell and a specialized attachment tip on the mycoplasmal cells. Attachment to lung fibroblasts and ciliated tracheal explants is time dependent, with maxima reached in 45-90 min at 37 C. Attachment to ciliated cells is slower, apparently because of continuous ciliary motion. Normally, less than 10% of available mycoplasmas become cell associated in vitro, perhaps because the pathogen must be in a particular growth phase or because only a small fraction of the M. pneumoniae population has complete or effective attachment tips. Mycoplasmas that attach to host cells normally have the constricted attachment tip oriented toward the host cell surface. Mycoplasmas are oriented vertically in cultures of densely ciliated cells, but can lie horizontally alone -- and in close apposition to--cell membranes of sparsely ciliated or nonciliated cells. The site to which M. pneumoniae attaches, a sialoglycoprotein, is readily inactivated by neuraminidase, partially sensitive to pronase, and resistant to trypsin. Purified glycoprotein extracts bind to M. pneumoniae.

L6 ANSWER 60 OF 87 MEDLINE on STN DUPLICATE 19

ACCESSION NUMBER: 82074432 MEDLINE DOCUMENT NUMBER: PubMed ID: 6796499

TITLE: Mycoplasma pneumoniae infection of

intact guinea pig tracheas cultured in a unique

matrix-embed/perfusion system.

AUTHOR: Gabridge M G; Hoglund L E

CONTRACT NUMBER: AI 12559 (NIAID)

AI 17795 (NIAID) HL 23806 (NHLBI)

SOURCE: In vitro, (1981 Oct) 17 (10) 847-58.

Journal code: 0063733. ISSN: 0073-5655.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198202

ENTRY DATE: Entered STN: 19900316

Last Updated on STN: 19970203 Entered Medline: 19820212

AB A new method for the in vitro culture of entire, intact tracheas from adult guinea pigs is described. Matrix-embed/perfusion (MEP) culture is based on an immobilization of the tissue in nutrient agar The tubular piece of agar-embedded organ was contained in a special perfusion block with two wells for liquid medium at either end. When incubated on a rocker platform, liquid medium flows through the trachea and supplies oxygen an nutrients. In this configuration, tracheas maintain near-normal metabolism (ATP content and dehydrogenase activity), structure (as determined by light and electron microscopy), and function (ciliary motion). Tissues could be maintained in vitro in a normal for at least 4 wk, with reduced ciliary motion and cell metabolism detectable for at

least 6 wk. Agar-embedded tissues from the MEP cultures were nearly identical to those cultivated with standard tracheal ring explant techniques. Tracheas in the MEP cultures were infected with Mycoplasma pneumoniae. Attachment was neuraminidase -sensitive. Mycoplasma attachment was lowest on the epithelium along the dorsal ridge, but was uniform along the length of the trachea. Ciliostasis and cytonecrosis induced by M. pneumoniae was dose dependent. The matrix-embed/perfuse technique appears to have considerable potential for several types of in vitro studies on trachea or other tubular organs.

L6 ANSWER 61 OF 87 MEDLINE on STN DUPLICATE 20

ACCESSION NUMBER: 81167005 MEDLINE DOCUMENT NUMBER: PubMed ID: 6163719

TITLE: Characterization of hemadsorption-negative mutants of

Mycoplasma pneumoniae.

AUTHOR: Hansen E J; Wilson R M; Clyde W A Jr; Baseman J B

CONTRACT NUMBER: 1-KO4-AI-00178 (NIAID)

HL-19171 (NHLBI)

SOURCE: Infection and immunity, (1981 Apr) 32 (1) 127-36.

Journal code: 0246127. ISSN: 0019-9567.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198106

ENTRY DATE: Entered STN: 19900316

Last Updated on STN: 19970203 Entered Medline: 19810623

AB Previously isolated mutants of Mycoplasma pneumoniae incapable of hemadsorption were characterized with respect to specific protein content, tracheal ring attachment capability, and virulence for both in vitro and in vivo model systems. Two-dimensional gel electrophoresis revealed both quantitative and qualitative differences between the protein complements of two different mutant strains and that of the virulent parent strain. Studies of mycoplasma attachment to hamster tracheal rings in vitro demonstrated that only one of these mutant strains still possessed the ability to attach to the respiratory epithelium via neuraminidase-sensitive receptors. Measurement of [3H]orotic acid uptake in mycoplasma-infected tracheal rings indicated that infection with the hemadsorption-negative mutants resulted in only slight reductions of ribonucleic acid synthesis, similar to levels observed for tracheal rings infected with an avirulent strain of M. pneumoniae. The virulence potential of the two mutant strains was further investigated by utilizing the hamster model system. Both mutant strains were rapidly cleared from the lungs of infected animals and produced little or no microscopic pneumonia.

L6 ANSWER 62 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1981:169197 BIOSIS

DOCUMENT NUMBER: PREV198171039189; BA71:39189

TITLE: INTERACTION OF MYCOPLASMA-GALLISEPTICUM WITH

SIALYL GLYCO PROTEINS.

AUTHOR(S): GLASGOW L R [Reprint author]; HILL R L

CORPORATE SOURCE: DEP OF MED, VETERANS ADMINISTRATION HOSP, DURHAM, NC 27710,

USA

SOURCE: Infection and Immunity, (1980) Vol. 30, No. 2, pp. 353-361.

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article FILE SEGMENT: BA LANGUAGE: ENGLISH

AB The binding of several glycoproteins to freshly grown and harvested cells of M. gallisepticum was examined. Only human glycophorin, the major sialoglycoprotein of the erythrocyte membrane, bound tightly as judged by

direct binding assays with 125I-labeled glycoproteins.

Neuraminidase-treated glycophorin did not bind, suggesting that binding is mediated through sialic acid groups. Although other sialoglycoproteins did not appear to bind M. gallisepticum by direct binding assays, some inhibited the binding of glycophorin. The best inhibitors had a mucin-like structure, with high MW and high sialic acid contents. N-acetylneuraminic acid appeared to be the favored sialic acid structure for binding but there was no strict specificity for its anomeric linkage. Neuraminidase activity could not be detected on the surface of M. gallisepticum, suggesting that this enzyme is not involved in the mechanism of adherence of sialoglycoproteins. Binding of sialoglycoproteins was time dependent and markedly diminished with increasing ionic strength but was largely unaffected between pH 4-9.

L6 ANSWER 63 OF 87 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 80142806 EMBASE

DOCUMENT NUMBER:

1980142806

TITLE:

Mycoplasmas and ureaplasmas in infertility and

abortion.

AUTHOR:

Friberg J.

CORPORATE SOURCE:

Dept. Obstet. Gynecol., Downstate Med. Cent., Brooklyn,

N.Y. 11203, United States

SOURCE:

Fertility and Sterility, (1980) 33/4 (351-359).

CODEN: FESTAS

COUNTRY:

United States

DOCUMENT TYPE:

Journal

FILE SEGMENT:

037 Drug Literature Index

010 Obstetrics and Gynecology

004 Microbiology

LANGUAGE:

English

In several of the reports the highest conception rates were obtained in couples with unexplained infertility treated with appropriate antibiotics following a positive ureaplasma culture. The great variability in the pregnancy results may be due to a multifactorial etiology for couples considered to have 'unexplained infertility'. A prominent role for ureaplasmas in infertility should not be expected, although some of the data are quite suggestive. A number of investigators firmly believe that ureaplasmas are of importance in infertility, whereas others do not share this view. Genital ureaplasmas have been demonstrated in a large proportion of fertile couples and therefore it has been proposed that only specific strains of urea-plasmas might be causing infertility, perhaps by secretion of specific substances such as neuraminidase, ammonia, or other 'toxic factors' that may inhibit conception and/or disturb development of the embryo with the risk of subsequent abortion. Some ureaplasmas in the female genital tract may also adversely affect the function of the tubal epithelium with destruction of the cilia. Serotyping of ureaplasmas might give additional information, but it has also been suggested that the infection is only superficial and a systemic antibody response might not be indicative of a current infection . For years it has been thought that mycoplasmas and ureaplasmas were species-specific and therefore Koch's postulates about an infecting organism could not be carried out. However, it has been recently demonstrated that the chimpanzee can be infected with human ureaplasmas. It is also possible that other, less expensive, subhuman primates can be similarly inoculated. The development of a suitable animal model could provide a valuable new approach for the study of ureaplasmas in human infertility.

L6 ANSWER 64 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1980:128717 BIOSIS

DOCUMENT NUMBER:

PREV198069003713; BA69:3713

TITLE:

INTERACTION OF MYCOPLASMA-PNEUMONIAE WITH HUMAN

LUNG FIBROBLASTS ROLE OF RECEPTOR SITES.

AUTHOR (S): GABRIDGE M G [Reprint author]; TAYLOR-ROBINSON D CORPORATE SOURCE: SCH BASIC MED SCI, UNIV ILL, URBANA, ILL 61801, USA

SOURCE: Infection and Immunity, (1979) Vol. 25, No. 1, pp. 455-459.

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article FILE SEGMENT: RΑ LANGUAGE: ENGLISH

The biochemical nature of the neuraminidase-sensitive M.

pneumoniae receptor site on human lung fibroblast cells was studied. Purified, mixed sialoglycolipid (ganglioside) preparations from human and bovine tissues did not bind to M. pneumoniae organisms and block their subsequent attachment to fibroblasts. Fibroblasts incubated for 24 h in sialoglycolipid solutions to increase the ganglioside content of their membranes did not show increased pathogen attachment when later incubated with mycoplasmas. HeLa [human cervical carcinoma] cells grown in the presence of sodium butyrate to increase GM3 ganglioside levels did not have significantly increased uptake of M. pneumoniae organisms. Treatment of fibroblasts with enzymes indicated that the mycoplasma receptor site is trypsin- and papain-resistant but pronase-sensitive. Pronase digests of fibroblast membranes contained a product(s) which combined with M. pneumoniae cells and co-sedimented with them during centrifugation. Glycoproteins purified from fibroblast membranes by a lithium diiodosalicylate solubilization technique bound to M. pneumoniae organisms. The major component of the M. pneumoniae receptor site may be a sialoglycoprotein with little or no lipid.

ANSWER 65 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on L6

STN

L6

1980:128716 BIOSIS ACCESSION NUMBER:

DOCUMENT NUMBER: PREV198069003712; BA69:3712

TITLE: INTERACTION OF MYCOPLASMA-PNEUMONIAE WITH HUMAN

LUNG FIBROBLASTS CHARACTERIZATION OF THE IN-VITRO MODEL.

AUTHOR (S): GABRIDGE M G [Reprint author]; TAYLOR-ROBINSON D; DAVIES H

A; DOURMASHKIN R R

SCH BASIC MED SCI, UNIV ILL, URBANA, ILL 61801, USA CORPORATE SOURCE:

Infection and Immunity, (1979) Vol. 25, No. 1, pp. 446-454. SOURCE:

CODEN: INFIBR. ISSN: 0019-9567.

Article DOCUMENT TYPE: FILE SEGMENT: BA LANGUAGE: ENGLISH

The interaction of pathogenic M. pneumoniae and host cells was studied in AB cell cultures of MRC-5 human lung fibroblasts. A comparison of results obtained with fibroblasts in a monolayer format and with hamster tracheal explant cultures indicated that the former can bind significantly larger numbers of mycoplasmas. The attachment was 96% specific, i.e., mediated through a neuraminidase-sensitive receptor on the host cell. Uptake of mycoplasmas was directly related to the number of Mycoplasma cells present in the inoculum, and attachment was virtually complete within a 30-min period at 37° C. High doses of M. pneumoniae induced a marked cytopathic effect whereas doses of ≤ 106 colony-forming units/ml produced grossly observable cell damage that was moderate and variable. Transmission electron microscopy studies indicated that attachment of M. pneumoniae to the surface of lung fibroblasts occurred with the specialized terminal structure or binding site oriented closest to the epithelial cell surface. The filamentous Mycoplasma cells were spatially arranged in several configurations and were not limited to a vertical orientation. The advantages and disadvantages of human lung fibroblast monolayer cultures, in reference to other in vitro models, are discussed. A new Mycoplasma agar medium (G-200 agar) with a defined tissue culture base and 10% horse serum is described.

STN

ACCESSION NUMBER: 1980:128701 BIOSIS

DOCUMENT NUMBER: PREV198069003697; BA69:3697

TITLE: ADHERENCE OF ERYTHROCYTES TO MYCOPLASMA

-PNEUMONIAE.

FELDNER J [Reprint author]; BREDT W; KAHANE I AUTHOR (S):

CORPORATE SOURCE: ZENT HYG, INST ALLG HYG BAKTERIOL, UNIV FREIB, D-7800

FREIBURG IM BREISGAU, W GER

Infection and Immunity, (1979) Vol. 25, No. 1, pp. 60-67. SOURCE:

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article FILE SEGMENT: BA

LANGUAGE: ENGLISH

AB The human pathogen M. pneumoniae adheres to a variety of cells, including erythrocytes. A hemadsorption technique was developed to quantitate adherence by photometric measurement of lysates of erythrocytes that attached to sheets of M. pneumoniae grown in cups of Linbro plates. Attachment of sheep erythrocytes (SE) increased with higher ionic strength, was unaffected by minor pH variations (6-9) and was blocked by anti-M. pneumoniae antiserum but was not inhibited by a variety of sugars, amino acids and bovine serum albumin. The reaction was time and temperature dependent. The temperature curve showed peaks at 14 and C with untreated SE but only 1 peak at about 38° C with glutaraldehyde-treated SE. The temperature dependence indicated involvement of metabolic or membrane activities in the binding process. Trypsin treatment of the M. pneumoniae sheet abolished adherence of SE but was only partially effective with human erythrocytes and non-effective with rabbit erythrocytes. The binding capacity of the mycoplasma cells for SE was restored by incubation in growth medium for 3-4 h; this restoration was inhibited by 10 µg of chloramphenicol/ml. Neuraminidase treatment of SE removed their attachment capacity but had no effect on attachment of rabbit erythrocytes and only a slight effect on attachment of human erythrocytes. Pre-treatment of M. pneumoniae with neuraminic acid partially blocked the adherence of SE, whereas rabbit erythrocyte attachment was not affected. Attached SE could be detached by trypsin, but not by neuraminidase. For human and rabbit erythrocytes, the results suggest binding mechanisms other than the interaction between neuraminidase-sensitive receptors and protein-containing binding sites shown for SE.

ANSWER 67 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. 1.6 STN

ACCESSION NUMBER: 1979:129773 BIOSIS

DOCUMENT NUMBER: PREV197967009773; BA67:9773

ADHERENCE OF MYCOPLASMA-GALLISEPTICUM TO HUMAN TITLE:

ERYTHROCYTES.

AUTHOR(S): BANAI M [Reprint author]; KAHANE I; RAZIN S; BREDT W

CORPORATE SOURCE: BIOMEMBR RES LAB, DEP CLIN MICROBIOL, HEBR UNIV, HADASSAH

MED SCH, JERUSALEM, ISR

Infection and Immunity, (1978) Vol. 21, No. 2, pp. 365-372. SOURCE:

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article FILE SEGMENT: LANGUAGE: ENGLISH

AB Pathogenic mycoplasmas adhere to and colonize the epithelial lining of the respiratory and genital tracts of infected animals. experimental system suitable for the quantitative study of mycoplasma adherence was developed. The system consists of human erythrocytes (RBC) and the avian pathogen Mycoplasma gallisepticum, in which membrane lipids were labeled. The amount of mycoplasma cells attached to the RBC, which was determined according to radioactivity measurements, decreased on increasing the pH or ionic strength of the attachment mixture. Attachment followed 1st-order kinetics and depended on temperature. The mycoplasma cell

population remaining in the supernatant fluid after exposure to RBC showed a much poorer ability to attach to RBC during a 2nd attachment test, indicating an unequal distribution of binding sites among cells within a given population. The gradual removal of sialic acid residues from the RBC by neuraminidase was accompanied by a decrease in mycoplasma attachment. Isolated glycophorin, the RBC membrane glycoprotein carrying almost all the sialic acid moieties of the RBC, inhibited M. gallisepticum attachment; asialoglycophorin and sialic acid itself were very poor inhibitors of attachment. Only part of the 125I-labeled glycophorin bound to mycoplasmas could be removed by neuraminidase or by exchange with unlabeled glycophorin. Glycophorin, representing the isolated major RBC receptor for M. gallisepticum, may bind to the mycoplasmas specifically, through its sialic acid moieties, and nonspecifically, through its exposed hydrophobic polypeptide moiety.

ANSWER 68 OF 87 MEDLINE on STN **DUPLICATE 21**

ACCESSION NUMBER: 79047249 MEDLINE DOCUMENT NUMBER: PubMed ID: 711320

TITLE: Ciliated respiratory epithelial monolayers: new model for

Mycoplasma pneumoniae infection.

AUTHOR: Gabridge M G; Gunderson H; Schaeffer S L; Barden-Stahl Y D

SOURCE: Infection and immunity, (1978 Jul) 21 (1) 333-6.

Journal code: 0246127. ISSN: 0019-9567.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 197901

ENTRY DATE: Entered STN: 19900314

> Last Updated on STN: 19900314 Entered Medline: 19790115

Hamster respiratory epithelial cells were cultured in a monolayer format, and 20% of the cells were ciliated. Mycoplasma pneumoniae attached to the epithelial cells in a neuraminidase-specific fashion and induced ciliostasis and cytonecrosis.

ANSWER 69 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

ACCESSION NUMBER: 1980:26141 BIOSIS

DOCUMENT NUMBER: PREV198018026141; BR18:26141

TITLE: PARTICIPATION OF BACTERIAL NEURAMINIDASES IN THE

DEVELOPMENT OF DISEASES.

AUTHOR (S): KOBRINSKII G D [Reprint author]

CORPORATE SOURCE: RES LAB EXP IMMUNOBIOL, ACAD MED SCI USSR, MOSCOW, USSR

SOURCE: Zhurnal Mikrobiologii Epidemiologii i Immunobiologii,

(1978) No. 11, pp. 26-32.

CODEN: ZMEIAV. ISSN: 0372-9311.

DOCUMENT TYPE: Article

FILE SEGMENT: BR LANGUAGE: RUSSIAN

ANSWER 70 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

ACCESSION NUMBER: 1977:228730 BIOSIS

DOCUMENT NUMBER: PREV197764051094; BA64:51094

TITLE: DIFFERENCES IN THE ATTACHMENT OF MYCOPLASMA

-PNEUMONIAE CELLS AND MEMBRANES TO TRACHEAL EPITHELIUM. AUTHOR (S):

GABRIDGE M G; BARDEN-STAHL Y D; POLISKY R B; ENGELHARDT J A SOURCE: Infection and Immunity, (1977) Vol. 16, No. 3, pp. 766-772.

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article

FILE SEGMENT:

LANGUAGE: Unavailable

Hamster trachea organ cultures were exposed to isolated membranes of M. AB pneumoniae, PI 1428. Attachment, monitored by the uptake of tritiated membranes, was relatively insensitive to neuraminidase pretreatment, unlike the attachment of viable cells. Membrane attachment was optimal when explants were incubated with 50-100 μg of membrane protein/ml in minimal essential medium broth while gently being rotated (1 rpm) in a roller apparatus for 90-120 min at 37° C. Saturation of the receptor sites with viable cells failed to inhibit subsequent membrane attachment. Induction of squamous metaplasia by extended cultivation of tracheal explants in a vitamin A-free medium reduced the content of ciliated cells without significantly affecting total cell viability, but did not alter the attachment of M. pneumoniae membranes. Collectively, the data indicate that the mechanism of attachment of M. pneumoniae membranes to respiratory epithelium is distinct from the receptor site-mediated attachment of M. pneumoniae cells.

L6 ANSWER 71 OF 87 MEDLINE on STN DUPLICATE 22

ACCESSION NUMBER: 77140084 MEDLINE DOCUMENT NUMBER: PubMed ID: 557458

TITLE: Effect of squamous metaplasia on infection of

hamster trachea organ cultures with Mycoplasma

pneumoniae.

AUTHOR: Engelhardt J A; Gabridge M G

SOURCE: Infection and immunity, (1977 Feb) 15 (2) 647-55.

Journal code: 0246127. ISSN: 0019-9567.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 197705

ENTRY DATE: Entered STN: 19900313

Last Updated on STN: 19900313 Entered Medline: 19770525

AB An organ culture system for hamster trachea was developed for maintenance of the ciliated respiratory epithelium during periods of extended cultivation (i.e., greater than 20 days). Evaluation of five serum types showed that horse serum and fetal calf serum were best for the maintenance of epithelial ciliary activity and morphology. Rings that were opened on one side ("split rings") had the best maintenance of the ciliated epithelium as judged by the retention of ciliary activity and normal histological appearance after 3 to 4 weeks in culture. The in vitro induction of squamous metaplasia was achieved by cultivating explants in Waymouth MAB 87/3 (vitamin A-free) medium, without serum. This system allowed a direct comparison of the effects of Mycoplasma pneumoniae infection in two epithelial types, ciliated pseudostratified columnar and keratinizing squamous. Attachment of 14C-labeled mycoplasmas was more than twofold greater in the normal epithelium. Pretreatment of explants with neuraminidase decreased attachment for both squamous and pseudostratified epithelial surfaces to a similar basal level. Recovery of viable organisms from infected tissue of both epithelial types indicated that the organism titer remained essentially constant during the infection period, but was significantly higher for the pseudostratified ciliated epithelium. These results suggest that specific receptor sites for M. pneumoniae are markedly reduced by the induction of squamous metaplasia and, hence, appear to be specific for the normal respiratory surface containing goblet cells and pseudostratified, ciliated epithelial cells.

L6 ANSWER 72 OF 87 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 78045969 EMBASE

DOCUMENT NUMBER: 1978045969

TITLE: Effect of squamous metaplasia on infection of

hamster trachea organ cultures with Mycoplasma

pneumoniae.

AUTHOR: Engelhardt J.A.; Gabridge M.G.

CORPORATE SOURCE: Dept. Microbiol., Sch. Bas. Med. Sci., Univ. Illinois,

Urbana, Ill. 61801, United States

SOURCE: Infection and Immunity, (1977) 5/2 (647-655).

CODEN: INFIBR

DOCUMENT TYPE: Journal

FILE SEGMENT: 004 Microbiology

016 Cancer

023 Nuclear Medicine

005 General Pathology and Pathological Anatomy

LANGUAGE: English

An organ culture system for hamster trachea was developed for maintenance of the ciliated respiratory epithelium during periods of extended cultivation (i.e., >20 days). Evaluation of 5 serum types showed that horse serum and fetal calf serum were best for the maintenance of epithelial ciliary activity and morphology. Rings that were opened on one side ('split rings') had the best maintenance of the ciliated epithelium as judged by the retention of ciliary activity and normal histologic appearance after 3 to 4 wk in culture. The in vitro induction of squamous metaplasia was achieved by cultivating explants in Waymouth MAB 87/3 (vitamin A free) medium, without serum. This system allowed a direct comparison of the effects of Mycoplasma pneumoniae infection in two epithelial types, ciliated pseudostratified columnar and keratinizing squamous. Attachment of 14C labeled mycoplasmas was more than twofold greater in the normal epithelium. Pretreatment of explants with neuraminidase decreased attachment for both squamous and pseudostratified epithelial surfaces to a similar basal level. Recovery of viable organisms from infected tissue of both epithelial types indicated that the organism titer remained essentially constant during the infection period, but was significantly higher for the pseudostratified ciliated epithelium. These results suggest that specific receptor sites for M. pneumoniae are markedly reduced by the induction of squamous metaplasia and, hence, appear to be specific for the normal respiratory surface containing goblet cells and pseudostratified, ciliated epithelial cells.

L6 ANSWER 73 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1976:172780 BIOSIS

DOCUMENT NUMBER: PREV197662002780; BA62:2780

TITLE: ATTACHMENT OF MYCOPLASMA-PNEUMONIAE TO

RESPIRATORY EPITHELIUM.

AUTHOR(S): POWELL D A; HU P C; WILSON M; COLLIER A M; BASEMAN J B SOURCE: Infection and Immunity, (1976) Vol. 13, No. 3, pp. 959-966.

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article

FILE SEGMENT: BA

LANGUAGE: Unavailable

AB The attachment of radioisotope-labeled M. pneumoniae to hamster tracheal rings in organ culture was examined by radioautography and liquid scintillation counting. Radioautographs of individual rings exposed for 8 h to [3H]thymidine-labeled virulent M. pneumoniae revealed a dense extracellular collection of emulsion grains along the luminal surface of epithelial cells. Similar exposure of rings to isotope-labeled avirulent M. pneumoniae resulted in no accumulation of emulsion grains. The numbers of attached virulent mycoplasmas, as measured by liquid scintillation counting of infected rings, increased in a nearly linear fashion over an 8-h incubation period. Viability of the mycoplasmas and metabolic integrity of the tracheal rings were important for optimal attachment. Pretreatment of rings with neuraminidase or Na periodate significantly impaired organism adherence. A specificity of interaction between virulent M. pneumoniae and tracheal epithelial cells that can be further examined through the use of isotopically labeled mycoplasmas is suggested.

ANSWER 74 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on L₆

STN

ACCESSION NUMBER: 1977:222761 BIOSIS

DOCUMENT NUMBER: PREV197764045125; BA64:45125

TITLE: NEWCASTLE DISEASE VIRUS O AGGLUTININS IN RELATION

TO T AGGLUTININS IN LABORATORY ANIMALS AND IN HUMAN

PATIENTS INFECTED WITH MYCOPLASMA-PNEUMONIAE.

AUTHOR (S): PYHALA R

Annales Zoologici Fennici, (1976) Vol. 13, No. 3, pp. SOURCE:

139-147.

CODEN: AZOFAO. ISSN: 0003-455X.

DOCUMENT TYPE: Article

FILE SEGMENT: BA

LANGUAGE: Unavailable

AB A serological relationship exists between the agglutinins detected with

erythrocytes modified by the B1 strain of Newcastle disease virus (NDV-O agglutinins) and the T agglutinins detected with the RDE[receptor destroying enzyme(Vibrio cholerae neuraminidase)]-O

test system. This relationship was studied with sera of unimmunized adult laboratory animals (rabbit, guinea pig, sheep, mouse, rat) and of human

patients infected with Mycoplasma pneumoniae. In laboratory

animals all moieties of the B1-O agglutinins were usually demonstrable with the RDE-O test system; in contrast, the RDE-O agglutinins frequently included a component which was not demonstrable with the B1-O test system. This component was not found in human patients. At different temperatures the B1-O agglutinins produced by the patients reacted in the same fashion as the natural B1-O and RDE-O agglutinins of the animals.

ANSWER 75 OF 87 MEDLINE on STN ACCESSION NUMBER: 77041007 MEDLINE DOCUMENT NUMBER: PubMed ID: 790846

TITLE: [Pathogenicity factors in mycoplasma and their

possible significance in mixed infections with bacteria and Candida albicans (proceedings)].

Pathogenitatsfaktoren von Mykoplasmen und deren mogliche Bedeutung in Mischinfektionen mit Bakterien und Candida

albicans.

Goeth H; Appel K R; Hoxer K AUTHOR:

Zentralblatt fur Bakteriologie, Parasitenkunde, SOURCE:

Infektionskrankheiten und Hygiene. Erste Abteilung Originale. Reihe A: Medizinische Mikrobiologie und

Parasitologie, (1976 Aug) 235 (1-3) 134-41. Journal code: 0331570. ISSN: 0300-9688. GERMANY, WEST: Germany, Federal Republic of

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: German

FILE SEGMENT: Priority Journals

ENTRY MONTH: 197612

Entered STN: 19900313 ENTRY DATE:

> Last Updated on STN: 19980206 Entered Medline: 19761230

ANSWER 76 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. L6

PUB. COUNTRY:

ACCESSION NUMBER: 1975:231944 BIOSIS

DOCUMENT NUMBER: PREV197560061940; BA60:61940

TITLE: MICHAELIS CONSTANTS OF NEURAMINIDASES OF

PATHOGENIC AND APATHOGENIC MICROORGANISMS.

MUELLER H E; VON NICOLAI H; ZILLIKEN F AUTHOR (S):

Zeitschrift fuer Naturforschung Teil C Biochemie Biophysik Biologie Virologie, (1975) Vol. 30, No. 3, pp. 417-419. SOURCE:

CODEN: ZNFCAP. ISSN: 0341-0471.

DOCUMENT TYPE: Article FILE SEGMENT: BA

LANGUAGE: Unavailable

L6 ANSWER 77 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1975:231886 BIOSIS

DOCUMENT NUMBER: PREV197560061882; BA60:61882

TITLE: GROWTH AND CYTO PATHOLOGY OF MYCOPLASMA-SYNOVIAE

IN CHICKEN EMBRYO CELL CULTURES.

AUTHOR(S): ALDRIDGE K E

SOURCE: Infection and Immunity, (1975) Vol. 12, No. 1, pp. 198-204.

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article

FILE SEGMENT: B

LANGUAGE: Unavailable

L6 ANSWER 78 OF 87 MEDLINE ON STN ACCESSION NUMBER: 75121347 MEDLINE DOCUMENT NUMBER: PubMed ID: 1118664

TITLE: Haemagglutination and haemagglutination inhibition with

Mycoplasma synoviae.

AUTHOR: Windsor G D; Thompson G W; Baker N W

SOURCE: Research in veterinary science, (1975 Jan) 18 (1) 59-63.

Journal code: 0401300. ISSN: 0034-5288.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 197506

ENTRY DATE: Entered STN: 19900310

Last Updated on STN: 19900310 Entered Medline: 19750606

AB A haemagglutinating antigen prepared from cultures of M synoviae WVU 1853 successfully detected homologous haemagglutination inhibition (HI) in sera of fowls and turkeys inoculated with M synoviae. Nonspecific HI was encountered with normal fowl sera but this was removed by treatment with receptor destroying enzyme. It is suggested that M synoviae. HA antigen will be a useful reagent for the diagnosis of M synoviae infection

L6 ANSWER 79 OF 87 MEDLINE on STN DUPLICATE 23

ACCESSION NUMBER: 76007091 MEDLINE DOCUMENT NUMBER: PubMed ID: 1159572

TITLE: Histochemical identification of glycoproteins in pig

bronchial epithelium: (a) normal and (b) hypertrophied from

enzootic pneumonia.

AUTHOR: Jones R; Baskerville A; Reid L

SOURCE: Journal of pathology, (1975 May) 116 (1) 1-11.

Journal code: 0204634. ISSN: 0022-3417.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 197512

ENTRY DATE: Entered STN: 19900313

Last Updated on STN: 19900313 Entered Medline: 19751204

The glycoproteins in the normal pig bronchial gland are identified by the combined Alcian Blue (AB)-periodic acid Schiff (PAS) technique, with the use of sialidase digestion and AB staining either at pH 2-6 or at pH 1-0. In enzootic pneumonia (produced experimentally by infection with Mycoplasma hyorhinis) the bronchial gland hypertrophies, mucous and serous cells both increase, in number and size;

hence the total glycoprotein content of the gland increases. The distribution of glycoproteins in the hypertrophied gland differs from that in the normal. Quantitative analysis of the mucous cells shows that in the hypertrophied gland the acid glycoprotein is increased relative to the neutral. There is also a relative change in the amounts of sialidase-sensitive sialomucin and sulphomucin; both are significantly increased at the expense of the sialidase -resistant sialomucin. Qualitative analysis of the serous cells shows that in the normal gland most of the glycoprotein is neutral and that the small amount of acid glycoprotein is sialidase-resistant sialomucin. In the hypertrophied gland there is relatively more acid glycoprotein which is either sialidase-resistant sialomucin or sulphomucin; in addition, in pigs with enzootic pneumonia there is an increase in the height of the bronchial epithelium and a depletion in both goblet cell number and glycoprotein content, which latter has more neutral glycoprotein and less acid glycoprotein.

L6 ANSWER 80 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1972:189870 BIOSIS

DOCUMENT NUMBER: PREV197254019864; BA54:19864

TITLE: STUDIES ON ATTACHMENT AND INGESTION PHASES OF PHAGOCYTOSIS

OF MYCOPLASMA-PULMONIS BY MOUSE PERITONEAL

MACROPHAGES.

AUTHOR(S): JONES T C; YEH S; HIRSCH J G

SOURCE: Proceedings of the Society for Experimental Biology and

Medicine, (1972) Vol. 139, No. 2, pp. 464-470.

CODEN: PSEBAA. ISSN: 0037-9727.

DOCUMENT TYPE: Article

FILE SEGMENT: BA

LANGUAGE: Unavailable

L6 ANSWER 81 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1972:161266 BIOSIS

DOCUMENT NUMBER: PREV197253061266; BA53:61266

TITLE: NEURAMINIDASE ACTIVITY IN MYCOPLASMA

-GALLISEPTICUM.

AUTHOR(S): SETHI K K; MULLER H E

SOURCE: Infection and Immunity, (1972) Vol. 5, No. 2, pp. 260-262.

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article

FILE SEGMENT: BA

LANGUAGE: Unavailable

L6 ANSWER 82 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1972:84102 BIOSIS

DOCUMENT NUMBER: PREV197208084102; BR08:84102

TITLE: FACTORS INFLUENCING PATHOGENICITY OF AVIAN MYCOPLASMOSIS.

AUTHOR(S): GERLACH H

SOURCE: Medical Microbiology and Immunology, (1972) Vol. 157, No.

2, pp. 179.

CODEN: MMIYAO. ISSN: 0300-8584.

DOCUMENT TYPE: Article

FILE SEGMENT: BR

LANGUAGE: Unavailable

L6 ANSWER 83 OF 87 MEDLINE on STN DUPLICATE 24

ACCESSION NUMBER: 72086068 MEDLINE DOCUMENT NUMBER: PubMed ID: 5167481

TITLE: Growth and pathogenicity studies of Mycoplasma

gallisepticum in chicken tracheal organ cultures.

AUTHOR: Cherry J D; Taylor-Robinson D

SOURCE: Journal of medical microbiology, (1971 Nov) 4 (4) 441-9.

Journal code: 0224131. ISSN: 0022-2615.

PUB. COUNTRY: ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

English LANGUAGE:

Priority Journals FILE SEGMENT:

ENTRY MONTH: 197203

ENTRY DATE: Entered STN: 19900310

> Last Updated on STN: 19900310 Entered Medline: 19720323

ANSWER 84 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

DUPLICATE 25

ACCESSION NUMBER: 1971:104979 BIOSIS

DOCUMENT NUMBER: PREV197152014979; BA52:14979

GROWTH AND PATHOGENESIS OF MYCOPLASMA TITLE:

-MYCOIDES-VAR-CAPRI IN CHICKEN EMBRYO TRACHEAL ORGAN

CULTURES.

AUTHOR (S): CHERRY J D; TAYLOR-ROBINSON D

Infection and Immunity, (1970) Vol. 2, No. 4, pp. 431-438. SOURCE:

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE: Article

FILE SEGMENT: BΑ

LANGUAGE: Unavailable

ANSWER 85 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on L6

ACCESSION NUMBER: 1969:178112 BIOSIS

DOCUMENT NUMBER: PREV196950116112; BA50:116112

UTILIZATION OF NEURAMINIC-ACID RECEPTORS BY TITLE:

MYCOPLASMAS MYCOPLASMATA ENZ NEURAMINIDASE MYCOPLASMA-PNEUMONIAE HUMAN FOWL ERYTHROCYTES MYCOPLASMA-GALLISEPTICUM NEOPL HELA CELLS

MYCOPLASMA-SYNOVIAE MYCOPLASMA-WR1.

AUTHOR (S): MANCHEE R J; TAYLOR-ROBINSON D

SOURCE: Journal of Bacteriology, (1969) Vol. 98, No. 3, pp.

914-919.

CODEN: JOBAAY. ISSN: 0021-9193.

DOCUMENT TYPE: Article FILE SEGMENT:

BA

LANGUAGE: Unavailable

ANSWER 86 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on L6

ACCESSION NUMBER: 1969:195037 BIOSIS

DOCUMENT NUMBER: PREV196950133037; BA50:133037

TITLE: STUDIES ON THE NATURE OF RECEPTORS INVOLVED IN ATTACHMENT

OF TISSUE CULTURE CELLS TO MYCOPLASMAS MYCOPLASMA-GALLISEPTICUM MYCOPLASMA

-PNEUMONIAE MYCOPLASMA-HOMINIS MYCOPLASMA -SALIVARIUM ENZ NEURAMINIDASE NEOPL HELA.

MANCHEE R J; TAYLOR-ROBINSON D AUTHOR (S):

British Journal of Experimental Pathology, (1969) Vol. 50, SOURCE:

No. 1, pp. 66-75.

CODEN: BJEPA5. ISSN: 0007-1021.

DOCUMENT TYPE: Article

FILE SEGMENT:

LANGUAGE: Unavailable

ANSWER 87 OF 87 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on

STN

ACCESSION NUMBER: 1969:200674 BIOSIS

DOCUMENT NUMBER: PREV196950003664; BA50:3664

TITLE: ABSORPTION OF MYCOPLASMA-PNEUMONIAE TO

```
NEURAMINIC-ACID RECEPTORS OF VARIOUS CELLS AND POSSIBLE
                    ROLE IN VIRULENCE MONKEY RAT GUINEA-PIG CHICKEN
                    ERYTHROCYTES EPITHELIAL CELLS ENZ NEURAMINIDASE
                    INFLUENZA B VIRUS MYCOPLASMA-GALLISEPTICUM
                    MYCOPLASMA-PULMONIS MYCOPLASMA-ORALE.
                    SOBESLAVSKY O; PRESCOTT B; CHANOCK R M
                    Journal of Bacteriology, (1968) Vol. 96, No. 3, pp.
                    695-705.
                    CODEN: JOBAAY. ISSN: 0021-9193.
DOCUMENT TYPE:
                   Article
FILE SEGMENT:
                   Unavailable
     (FILE 'HOME' ENTERED AT 14:05:18 ON 10 JAN 2005)
    FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS,
    LIFESCI' ENTERED AT 14:05:42 ON 10 JAN 2005
         73150 S MYCOPLASMA
         63554 S NEURAMINIDASE? OR SIALIDASE?
           224 S L1 AND L2
           139 S (INFECTION? OR DISEASE?) AND L3
       2620647 S CANCER OR "HODGKIN'S" AND L4
            87 DUP REM L4 (52 DUPLICATES REMOVED)
            652 S (CANCER OR "HODGKIN'S") AND L6
=> e higuchi m/au
                 · HIGUCHI L M/AU
            7
                  HIGUCHI LESLIE M/AU
            1
         3027 --> HIGUCHI M/AU
           45
                  HIGUCHI M A/AU
           53
                  HIGUCHI M D/AU
           37
                  HIGUCHI M D L/AU
           32
                  HIGUCHI M DE L/AU
            2
                  HIGUCHI M DE LOURDES/AU
           1
                  HIGUCHI M GREATER THAN OR EOUAL TO/AU
          136
                  HIGUCHI M L/AU
            1
                  HIGUCHI M L H M D/AU
            1
                  HIGUCHI MAHO/AU
         3027 "HIGUCHI M"/AU
=> e schenkman s/au
                  SCHENKMAN ROCILDA P F/AU
           14
            1
                  SCHENKMAN ROCILDA PERAZZINI FUKASAWA/AU
          344 --> SCHENKMAN S/AU
            4
                SCHENKMAN S */AU
            1
                  SCHENKMAN S P/AU
            5
                  SCHENKMAN S S/AU
            2
                  SCHENKMAN SELVA S/AU
          106
                  SCHENKMAN SERGIO/AU
                  SCHENKMAN SIMONE/AU
            1
                 SCHENKMANM RONNI L/AU
           1
2
                 SCHENKMANN A/AU
                  SCHENKMANN N S/AU
```

=> s e3

AUTHOR(S):

SOURCE:

LANGUAGE:

=> d his

L1

L2L3

L4

L5

L6 L7

E1

E2

E3

E4

E5

E6

E7

E8

E9

E10

E11

E12

E1

E2

E3

E4

E5

E6

E7

E8

E9

E10 E11

E12

=> s e3 L8

344 "SCHENKMAN S"/AU

=> s 18 or 19

3371 L8 OR L9

(FILE 'HOME' ENTERED AT 14:05:18 ON 10 JAN 2005)

```
FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS,
     LIFESCI' ENTERED AT 14:05:42 ON 10 JAN 2005
Ll
          73150 S MYCOPLASMA
          63554 S NEURAMINIDASE? OR SIALIDASE?
L2
L3
            224 S L1 AND L2
L4
            139 S (INFECTION? OR DISEASE?) AND L3
L5
        2620647 S CANCER OR "HODGKIN'S" AND L4
L6
             87 DUP REM L4 (52 DUPLICATES REMOVED)
L7
            652 S (CANCER OR "HODGKIN'S")
                E HIGUCHI M/AU
1.8
           3027 S E3
                E SCHENKMAN S/AU
L9
            344 S E3
           3371 S L8 OR L9
L10
=> s 16 and 110
             2 L6 AND L10
=> d 1-2 ibib ab
      ANSWER 1 OF 2 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
ACCESSION NUMBER: 2004-00309 BIOTECHDS
TITLE:
                  Use of an agent that prevents or inhibits Mycoplasma
                  infection, for manufacturing a medicament for
                  treating or preventing a disorder associated with increased
                  cell proliferation, e.g. atherosclerotic vascular
                  disease or malignancy;
                     recombinant Trypanosoma cruzi protein application in
                     infection, tumor and vascular disease
                     therapy
                  HIGUCHI M D L; SCHENKMAN S
AUTHOR:
PATENT ASSIGNEE: HIGUCHI M D L; SCHENKMAN S
PATENT INFO:
                  US 2003124109 3 Jul 2003
APPLICATION INFO: US 2002-86913 1 Mar 2002
                  BR 2001-2648 3 Jul 2001; BR 2000-2989 3 Jul 2000
PRIORITY INFO:
DOCUMENT TYPE:
                  Patent
LANGUAGE:
                  English
OTHER SOURCE:
                  WPI: 2003-810968 [76]
AB
      DERWENT ABSTRACT:
      NOVELTY - Use of an agent that prevents or inhibits Mycoplasma
      infection for manufacturing a medicament for treating a disorder
      associated with increased cell proliferation.
           DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a
      composition for treating or preventing Mycoplasma
      infection in a subject suffering from a disorder associated with
      increased cell proliferation or a co-infection with
      mycoplasma and a second microbe, comprising an agent that
      prevents or inhibits sialic acid-mediated attachment of
      mycoplasma to cells of the subject.
           BIOTECHNOLOGY - Preferred Composition: The agent is an antibiotic or
      an enzyme having an activity consisting of neuraminidase and/or
      trans-sialidase activity. The enzyme is derived from a
      Trypanosoma cruzi microorganism, where the enzyme is a native or a
      recombinant enzyme. The enzyme has a fully defined sequence of 669 amino
      acids given in the specification. A vector containing the DNA insert
      having a fully defined sequence of 2010 bp given in the specification
      produces the enzyme.
```

ACTIVITY - Antibacterial; Antiarteriosclerotic; Cytostatic; Anti-HIV. A 64-year-old female patient with a palpable abdominal mass and a tumoral mass in the rectum was administered 50 ml of native transsialidase (TSN) intraperitoneally on alternate days for a period of 14 days. On day 23, with mycoplasmas confirmed in the bone marrow, erythromycin (500 mg/day) was given for a further 20 days. Clinical improvement and normalization of blood leukocytes was seen after 2 days. Considering the important clinical improvement and reduction in abdominal mass, a second session of TSN was administered. The patient demonstrated improvement in general clinical status. Tomography detected a reduction in tumoral mass. Results showed that trans-sialidase is effective as a drug in the treatment of neoplasia, removing mycoplasmas from the neoplastic cells leading to their apoptosis.

MECHANISM OF ACTION - Neuraminidase; Trans-

sialidase.

USE - The composition or the agent that prevents or inhibits mycoplasma infection is useful for manufacturing a medicament for treating or preventing a disorder associated with increased cell proliferation, e.g. atherosclerotic vascular disease or malignant disease, or a disease associated with co-infection with mycoplasma and a second microbe such as human immunodeficiency virus or a Chlamydia microbe (all claimed).

ADMINISTRATION - The amount of the enzyme administered is about 106-1013 units per day. Administration may be intravenous, intraperitoneal, intrathecal, oral, by inhalation, subcutaneous, or intramuscular. (32 pages)

L11 ANSWER 2 OF 2 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN ACCESSION NUMBER: 2002-08674 BIOTECHDS

ACCESSION NUMBER: 2002-08674 BIOTECHDS TITLE: Composition useful fo

Composition useful for treatment of mycoplasma infection and diseases associated with cell

proliferation e.g. malignancy or with co-infection with another microbe, comprises agent inhibiting sialic

acid-mediated attachment of mycoplasma;

native or recombinant enzyme treatment and vector-mediated

gene transfer and expression in host cell for

disease therapy or prevention

AUTHOR: HIGUCHI M D L; SCHENKMAN S
PATENT ASSIGNEE: HIGUCHI M D L; SCHENKMAN S
PATENT INFO: WO 2002002050 10 Jan 2002
APPLICATION INFO: WO 2000-BR83 3 Jul 2000
PRIORITY INFO: BR 2000-2989 3 Jul 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2002-154675 [20]

AB DERWENT ABSTRACT:

NOVELTY - A composition useful for treating or preventing mycoplasma infection in a subject suffering from a disorder characterized by increased cell proliferation or by coinfection with a second microbe comprising an agent that prevents or inhibits sialic acid-mediated attachment of mycoplasma to the subject's cells, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for use of an agent preventing/inhibiting mycoplasma infection in medicaments to treat disorders characterized by increase cell proliferation.

BIOTECHNOLOGY - Preferred Composition: The agent is preferably an enzyme (native or recombinant) with neuraminidase and/or transsialidase activity, especially derived from Trypanosoma cruzi. It preferably has fully defined sequence (I) of 669 amino acids as given in the specification. The medicament preferably includes a vector comprising DNA insert of a fully defined sequence (II) of 2010 base pairs as given in the specification, producing the preferred enzyme having sequence (I) as above.

ACTIVITY - Antiatherosclerotic; antibacterial; antiviral; anti-HIV;

cytostatic; vasotropic. A laboratory rat population was determined to be infected with both Mycoplasma pulmonis and Chlamydia pneumoniae using standard immunohistological techniques and histological examination of various organs. Nine adult rats (approximately 285 g; seven males, two females) presenting conjunctivitis, slow movements and, in one rat severe otitis and another severe weight loss, were allocated to groups A or B. A (Control group) comprised three animals, two of which were killed without injecting any substance and one receiving an inactivated form of 'TSC' (recombinantly produced catalytic portion of Trypanosoma cruzi transsialidase) for 5 consecutive days. B comprised five animals receiving 'TNS' (complete, native Trypanosoma cruzi transsialidase) (0.5 ml/animal, every 2 days) and sacrificed after 7, 9, and 12 days, and one rat receiving active TSC (140 microgram/day, five consecutive days) and killed after 7 days. Group B rats showed a clear improvement in symptoms, becoming more agile, requiring more ether to anesthetize them and becoming more difficult to restrain. The animal with otitis showed less equilibrium loss and the animal with severe weight loss gained weight. Since the lung was the most frequently injured organ, pulmonary alterations were examined using electron microscopy, confocal laser microscopy and immunohistochemistry. Histological sections showed that treated animals presented resolving pneumonitis after 7 d. After 9-12 days M. pulmonis were almost absent from alveoli and mean C. pneumoniae positive cell numbers in alveoli had decreased, compatible with regression of C. pneumoniae infection. Results are given in the specification.

MECHANISM OF ACTION - Inhibits sialic acid mediated attachment of mycoplasma to cells.

USE - The compositions are useful to treat diseases associated with undesirable cell proliferation, such as atherosclerotic vascular disease and malignancy (both claimed), by reducing or preventing mycoplasma infection. They also useful to treat diseases associated with infection with other infectious organisms co-occurring with mycoplasma (and typically increasing the virulence of both pathogens), especially human immunodeficiency virus or chlamydia species. They can be used to treat such diseases in humans or other animals, and can be administered in conjunction with conventional agents e.g. anti-platelet or chemotherapeutic agents. (63 pages)

=> d his

```
(FILE 'HOME' ENTERED AT 14:05:18 ON 10 JAN 2005)
```

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 14:05:42 ON 10 JAN 2005 L173150 S MYCOPLASMA L263554 S NEURAMINIDASE? OR SIALIDASE? L3224 S L1 AND L2 L4139 S (INFECTION? OR DISEASE?) AND L3 L5 2620647 S CANCER OR "HODGKIN'S" AND L4 87 DUP REM L4 (52 DUPLICATES REMOVED) L6 652 S (CANCER OR "HODGKIN'S") AND L6 L7 E HIGUCHI M/AU 3027 S E3 L8 E SCHENKMAN S/AU 344 S E3 L9 3371 S L8 OR L9 L10 2 S L6 AND L10 L11 => s 16 and (prevent or inhibit) 8 L6 AND (PREVENT OR INHIBIT)

L12 ANSWER 1 OF 8 MEDLINE on STN

ACCESSION NUMBER: 2004419768 IN-PROCESS

DOCUMENT NUMBER: PubMed ID: 15325005

TITLE: Trypanosoma cruzi trans-sialidase as a new

therapeutic tool in the treatment of chronic inflammatory

diseases: possible action against

mycoplasma and chlamydia. de Lourdes Higuchi Maria

CORPORATE SOURCE: Pathology Laboratory, Heart Institute (InCor) of Clinical

Hospital, School of Medicine of Sao Paulo University, Av. Dr Eneas de Carvalho Aguiar 44, 05403-000 Sao Paulo, SP,

Brazil.. anplourdes@incor.usp.br

SOURCE: Medical hypotheses, (2004) 63 (4) 616-23.

Journal code: 7505668. ISSN: 0306-9877.

PUB. COUNTRY: Scotland: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

AUTHOR:

FILE SEGMENT: IN-PROCESS; NONINDEXED; Priority Journals

ENTRY DATE: Entered STN: 20040825

Last Updated on STN: 20041219

The present paper proposes a new therapy using Trypanosoma cruzi trans-AB sialidase to treat diseases with unclear pathogenesis that present in common chronic inflammation and fibrosis. This hypothesis is based on recent findings that co-infection with mycoplasma and chlamydia is present in many of these diseases and that this enzyme was capable to eliminate or decrease the co-infection from the host. We identified that mycoplasmas and chlamydias are present in atherosclerosis, aortic valve stenosis, dilated cardiomyopathy, chronic chagasic myocarditis and cancer. We hypothetized that mycoplasmal infection may induce immunodepression in the host, favoring proliferation of pre-existent chlamydial infection and that elimination of mycoplasma would lead to improvement of the immune system resistance and the control of chlamydial proliferation. Mycoplasma has a particular parasitic relationship with host cells, involving strong adherence of their membranes, making it extremely difficult to eradicate mycoplasmal infection from the host. A new therapeutic approach is suggested using one or more agents that prevent or inhibit the adherence of mycoplasma to host cell membranes by removing sialic acid residues and preventing oxidation of the cells. neuraminidase enzyme, particularly the T. cruzi transsialidase enzyme, associated with treatment using anti-oxidating agents is proposed. Preliminary experimental animal and laboratory tests showed good results. The proposal that trans-sialidase from T. cruzi is efficient in combating co-infection of mycoplasma and chlamydia is based, at least in part, on the observation that chagasic patients suffering from T. cruzi infection present less mycoplasma and chlamydia infection in their tissues. Also, a lower incidence of the diseases above described to be related to mycoplasma infection is observed in chagasic patients. It is also hypothesized that co-infection with mycoplasma and chlamydia may induce oxidation of the host cells. Anti-oxidants such as those present in plant extracts may also be used in the treatment. diseases such as chronic hepatitis, glomerulonephritis, Multiple Sclerosis, Alzheimer's Syndrome and idiopathic encephalitis are other examples of chronic diseases where mycoplasma and chlamydia might be present, as they have the characteristics of unknown etiology, persistent chronic inflammation and fibrosis. Copyright 2004 Elsevier Ltd.

L12 ANSWER 2 OF 8 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

ACCESSION NUMBER: 2002046997 EMBASE TITLE: Infectious diseases.

AUTHOR: Erard Ph.

CORPORATE SOURCE: Dr. Ph. Erard, Departement de Medecine, Hopital des

Cadolles, 2000 Neuchatel, Switzerland. ph.erard@net2000.ch

SOURCE: Medecine et Hygiene, (16 Jan 2002) 60/2375 (111-114).

Refs: 34

ISSN: 0025-6749 CODEN: MEHGAB

COUNTRY: Switzerland

DOCUMENT TYPE: Journal; Article FILE SEGMENT: 004 Microbiology

015 Chest Diseases, Thoracic Surgery and Tuberculosis

037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

About 75% of antibiotic prescriptions in the outpatient setting are made for upper respiratory tract infections. New guidelines have been issued this year emphasizing that the vast majority of antibiotic prescriptions are not justified. More importantly, these unnecessary prescriptions are likely to contribute considerably to the emergence of antibiotic resistance. Community-acquired pneumonia is mainly caused by pneumococci and mycoplasma. Empirical treatment should therefore cover both groups of pathogens. Several studies have shown that neuraminidase-inhibitors, when administered prophylactically to family members of an index case with influenza, can prevent intrafamilial transmission of influenza. While a single dose of prophylactic doxycycline given shortly after a tick bite and removal of tick, can prevent the transmission of the Lyme agent in areas with a high (>3%) transmission rate, antibiotic treatment of patients with chronic fatigue having suffered of Lyme disease was of no benefit. Self-treatment of young women with acute uncomplicated cystitis has been used in clinical practice for many years. A recent prospective study validates this approach. These and other new studies should hopefully contribute to a rational and economic usage of antibiotics.

L12 ANSWER 3 OF 8 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 80142806 EMBASE

DOCUMENT NUMBER: 1980142806

TITLE: Mycoplasmas and ureaplasmas in infertility and

abortion.

AUTHOR: Friberg J.

CORPORATE SOURCE: Dept. Obstet. Gynecol., Downstate Med. Cent., Brooklyn,

N.Y. 11203, United States

SOURCE: Fertility and Sterility, (1980) 33/4 (351-359).

CODEN: FESTAS United States

DOCUMENT TYPE:

COUNTRY:

Journal

DOCUMENT TIPE:

FILE SEGMENT: 037 Drug Literature Index
010 Obstetrics and Gynecology

004 Microbiology

LANGUAGE: English

AB In several of the reports the highest conception rates were obtained in couples with unexplained infertility treated with appropriate antibiotics following a positive ureaplasma culture. The great variability in the pregnancy results may be due to a multifactorial etiology for couples considered to have 'unexplained infertility'. A prominent role for ureaplasmas in infertility should not be expected, although some of the data are quite suggestive. A number of investigators firmly believe that ureaplasmas are of importance in infertility, whereas others do not share this view. Genital ureaplasmas have been demonstrated in a large proportion of fertile couples and therefore it has been proposed that only specific strains of urea-plasmas might be causing infertility, perhaps by secretion of specific substances such as neuraminidase, ammonia,

or other 'toxic factors' that may inhibit conception and/or disturb development of the embryo with the risk of subsequent abortion. Some ureaplasmas in the female genital tract may also adversely affect the function of the tubal epithelium with destruction of the cilia. Serotyping of ureaplasmas might give additional information, but it has also been suggested that the infection is only superficial and a systemic antibody response might not be indicative of a current infection . For years it has been thought that mycoplasmas and ureaplasmas were species-specific and therefore Koch's postulates about an infecting organism could not be carried out. However, it has been recently demonstrated that the chimpanzee can be infected with human ureaplasmas. It is also possible that other, less expensive, subhuman primates can be similarly inoculated. The development of a suitable animal model could provide a valuable new approach for the study of ureaplasmas in human infertility.

L12 ANSWER 4 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN

ACCESSION NUMBER:

1977:228730 BIOSIS

DOCUMENT NUMBER:

PREV197764051094; BA64:51094

TITLE:

DIFFERENCES IN THE ATTACHMENT OF MYCOPLASMA

AUTHOR (S): SOURCE:

-PNEUMONIAE CELLS AND MEMBRANES TO TRACHEAL EPITHELIUM. GABRIDGE M G; BARDEN-STAHL Y D; POLISKY R B; ENGELHARDT J A

Infection and Immunity, (1977) Vol. 16, No. 3, pp. 766-772.

CODEN: INFIBR. ISSN: 0019-9567.

DOCUMENT TYPE:

Article

FILE SEGMENT:

RΔ

LANGUAGE:

Unavailable

AΒ Hamster trachea organ cultures were exposed to isolated membranes of M. pneumoniae, PI 1428. Attachment, monitored by the uptake of tritiated membranes, was relatively insensitive to neuraminidase pretreatment, unlike the attachment of viable cells. Membrane attachment was optimal when explants were incubated with 50-100 µg of membrane protein/ml in minimal essential medium broth while gently being rotated (1 rpm) in a roller apparatus for 90-120 min at 37° C. Saturation of the receptor sites with viable cells failed to inhibit subsequent membrane attachment. Induction of squamous metaplasia by extended cultivation of tracheal explants in a vitamin A-free medium reduced the content of ciliated cells without significantly affecting total cell viability, but did not alter the attachment of M. pneumoniae membranes. Collectively, the data indicate that the mechanism of attachment of M. pneumoniae membranes to respiratory epithelium is distinct from the receptor site-mediated attachment of M. pneumoniae cells.

ANSWER 5 OF 8 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

ACCESSION NUMBER: 2004-00309 BIOTECHDS

TITLE:

Use of an agent that prevents or inhibits Mycoplasma infection, for manufacturing a

medicament for treating or preventing a disorder associated with increased cell proliferation, e.g. atherosclerotic

vascular disease or malignancy;

recombinant Trypanosoma cruzi protein application in

infection, tumor and vascular disease

therapy

AUTHOR: HIGUCHI M D L; SCHENKMAN S PATENT ASSIGNEE: HIGUCHI M D L; SCHENKMAN S PATENT INFO:

US 2003124109 3 Jul 2003 APPLICATION INFO: US 2002-86913 1 Mar 2002

PRIORITY INFO:

BR 2001-2648 3 Jul 2001; BR 2000-2989 3 Jul 2000

DOCUMENT TYPE:

Patent

LANGUAGE:

English WPI: 2003-810968 [76]

OTHER SOURCE: DERWENT ABSTRACT: AB

NOVELTY - Use of an agent that prevents or inhibits

Mycoplasma infection for manufacturing a medicament for treating a disorder associated with increased cell proliferation.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a composition for treating or preventing Mycoplasma infection in a subject suffering from a disorder associated with increased cell proliferation or a co-infection with mycoplasma and a second microbe, comprising an agent that prevents or inhibits sialic acid-mediated attachment of mycoplasma to cells of the subject.

BIOTECHNOLOGY - Preferred Composition: The agent is an antibiotic or an enzyme having an activity consisting of neuraminidase and/or trans-sialidase activity. The enzyme is derived from a Trypanosoma cruzi microorganism, where the enzyme is a native or a recombinant enzyme. The enzyme has a fully defined sequence of 669 amino acids given in the specification. A vector containing the DNA insert having a fully defined sequence of 2010 bp given in the specification produces the enzyme.

ACTIVITY - Antibacterial; Antiarteriosclerotic; Cytostatic; Anti-HIV. A 64-year-old female patient with a palpable abdominal mass and a tumoral mass in the rectum was administered 50 ml of native transsialidase (TSN) intraperitoneally on alternate days for a period of 14 days. On day 23, with mycoplasmas confirmed in the bone marrow, erythromycin (500 mg/day) was given for a further 20 days. Clinical improvement and normalization of blood leukocytes was seen after 2 days. Considering the important clinical improvement and reduction in abdominal mass, a second session of TSN was administered. The patient demonstrated improvement in general clinical status. Tomography detected a reduction in tumoral mass. Results showed that trans-sialidase is effective as a drug in the treatment of neoplasia, removing mycoplasmas from the neoplastic cells leading to their apoptosis.

MECHANISM OF ACTION - Neuraminidase; Transsialidase.

USE - The composition or the agent that prevents or inhibits mycoplasma infection is useful for manufacturing a medicament for treating or preventing a disorder associated with increased cell proliferation, e.g. atherosclerotic vascular disease or malignant disease, or a disease associated with co-infection with mycoplasma and a second microbe such as human immunodeficiency virus or a Chlamydia microbe (all claimed).

ADMINISTRATION - The amount of the enzyme administered is about 106-1013 units per day. Administration may be intravenous, intraperitoneal, intrathecal, oral, by inhalation, subcutaneous, or intramuscular. (32 pages)

L12 ANSWER 6 OF 8 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN ACCESSION NUMBER: 2003-27952 BIOTECHDS

TITLE: Composition

Composition useful for treating mycoplasma infection comprises an agent that prevents

proliferation of mycoplasma or associated microbes; native or recombinant enzyme treatment for disease

therapy

AUTHOR: HIGUCHI M D L PATENT ASSIGNEE: HIGUCHI M D L

PATENT INFO: WO 2003082324 9 Oct 2003 APPLICATION INFO: WO 2003-BR49 28 Mar 2003

PRIORITY INFO: BR 2002-1010 28 Mar 2002; BR 2002-1010 28 Mar 2002

PRIORITY INFO:
DOCUMENT TYPE: Patent
LANGUAGE: English

OTHER SOURCE: WPI: 2003-803968 [75]

AB DERWENT ABSTRACT:

NOVELTY - A composition comprises an agent (A) that prevents or inhibits the proliferation of at least one of Mycoplasma or microbes associated with Mycoplasma, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for the use of an agent (A) for the manufacture of a medicament for treating a disorder defined by increased microbes proliferation associated with inflammation, fibrosis, calcification, ossification, cellular disarray and/or fragmentation of the extra-cellular matrix of the adjacent tissue.

ACTIVITY - Antimicrobial; Antibacterial; Antiinflammatory; Nephrotropic; Hepatotropic; Endocrine-Gen.; Cytostatic; Osteopathic; Antiarthritic; Antirheumatic; Gastrointestinal-Gen.; Cerebroprotective; Neuroprotective; Antiallergic; Vasotropic; Antiulcer; Respiratory-Gen.; Antiasthmatic; Virucide; Anti-HIV; Dermatological.

MECHANISM OF ACTION - Mycoplasma proliferation inhibitor;
Mycoplasma-associated microbes proliferation inhibitor; Host cell
proliferation inhibitor; Microbial proliferation inhibitor. Two rats
presenting skin ulcer and tail injury due to the co-infection
of Lycoplasm and Spirochetes were treated. One received 0.5 ml/animal TSN
(complete active native trans-sialidase of Trypanosoma cruzi),
every day for 10 days, and the other received TSC (active transsialidase substance catalytic portion, produced by a recombinant
bacteria containing the Plasmodium (pTSIII), ATCC with PTA - 3483) for 8
days. The mice were killed respectively with 14 and 10 days. The skin
ulcers already showed initial healing after 4 days of treatment, with
complete healing in 14 days, with the formation of a new coat. There was
a stop in the loss of the tail and the histological exam demonstrated
regression of the lesion and severe decrease of all infectious agents.

USE - For treating or preventing Mycoplasma infection including disorders defined by co-infection and fusion of Mycoplasma and/or at least a second microbe to a host cell or a cell fragment, causing inflammation and at least one of the tissue alterations due to fibrosis, calcification, ossification, cellular disarray or fragmentation of the extra-cellular matrix of the subjacent tissue (e.g. aortic valve stenosis with calcification, idiopathic glomerulopathy, glomerulopathy with inflammation, Lyme's disease, co-infection with chlamydia, spirochete and/or archaea); and for the manufacture of a medicament for treating a disorder defined by increased microbes proliferation (e.g. calcification of the cardiac valves, glomerulonephritis, fibrosing chronic hepatopathy, baldness, and malignant neoplasia) (claimed). Also useful for the treatment of skin ulcer, osteoarthritis, inflammatory bowel disease, chronic cerebral sclerosis disease, lymphocytic chronic arteritis, non-purulent inflammatory osteoarthrtis, multiple sclerosis, lymphocytic inflammatory vascular disease, optionally granulomatous and with non-stabilized etiology (e.g. Takayasu's disease, giant cell arteritis, Wegener's granulomatosis, thromboangiitis obliterans), rheumatoid arthritis, ulcerative colitis, Whipple's disease, gastritis, inflammatory diseases of the respiratory tract of not well established etiology (e.g. adult respiratory distress syndrome, Goodpasture's syndrome, asthma, chronic fibrosing hepatopathy, emphysema; and for the treatment or prevention of disorders associated with mycoplasma infection, co-infection and/or fusion of mycoplasma with other microbes (e.q. virus such as human immunodeficiency virus, hepatitis virus, cytomegalovirus, human papillomavirus, Epstein-Barr virus; or bacteria).

ADMINISTRATION - The trans-sialidase enzyme is administered in a dosage of (4 mg/day) in a period of at least 2, or a culture of Trypanosoma cruzi with a mean trans-sialidase activity of 140 U/day is administered every other day for one week (1 - 8 weeks). The administration is intravenous, intraperitoneal, intrathecal, oral, by inhalation, subcutaneous or intramuscular.

ADVANTAGE - The composition inhibits or prevents the adhesion and/or infection of Mycoplasma and the microorganisms associated with them by at least 10%. The antibiotic protein such as neuraminidase enzyme or the transsialidase enzyme of Trypanosoma cruzi removes the sialic acid

residues and inhibits or prevents the attachment of Mycoplasma to host cells.

EXAMPLE - No relevant example given. (24 pages)

L12 ANSWER 7 OF 8 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

ACCESSION NUMBER: 2002-08674 BIOTECHDS

TITLE: Composition useful for treatment of mycoplasma

infection and diseases associated with cell
proliferation e.g. malignancy or with co-infection

with another microbe, comprises agent inhibiting sialic

acid-mediated attachment of mycoplasma;

native or recombinant enzyme treatment and vector-mediated

gene transfer and expression in host cell for

disease therapy or prevention

AUTHOR: HIGUCHI M D L; SCHENKMAN S PATENT ASSIGNEE: HIGUCHI M D L; SCHENKMAN S PATENT INFO: WO 2002002050 10 Jan 2002 APPLICATION INFO: WO 2000-BR83 3 Jul 2000 PRIORITY INFO: BR 2000-2989 3 Jul 2000

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2002-154675 [20]

AB DERWENT ABSTRACT:

NOVELTY - A composition useful for treating or preventing mycoplasma infection in a subject suffering from a disorder characterized by increased cell proliferation or by coinfection with a second microbe comprising an agent that prevents or inhibits sialic acid-mediated attachment of mycoplasma to the subject's cells, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for use of an agent preventing/inhibiting mycoplasma infection in medicaments to treat disorders characterized by increase cell proliferation.

BIOTECHNOLOGY - Preferred Composition: The agent is preferably an enzyme (native or recombinant) with neuraminidase and/or transsialidase activity, especially derived from Trypanosoma cruzi. It preferably has fully defined sequence (I) of 669 amino acids as given in the specification. The medicament preferably includes a vector comprising DNA insert of a fully defined sequence (II) of 2010 base pairs as given in the specification, producing the preferred enzyme having sequence (I) as above.

ACTIVITY - Antiatherosclerotic; antibacterial; antiviral; anti-HIV; cytostatic; vasotropic. A laboratory rat population was determined to be infected with both Mycoplasma pulmonis and Chlamydia pneumoniae using standard immunohistological techniques and histological examination of various organs. Nine adult rats (approximately 285 g; seven males, two females) presenting conjunctivitis, slow movements and, in one rat severe otitis and another severe weight loss, were allocated to groups A or B. A (Control group) comprised three animals, two of which were killed without injecting any substance and one receiving an inactivated form of 'TSC' (recombinantly produced catalytic portion of Trypanosoma cruzi transsialidase) for 5 consecutive days. B comprised five animals receiving 'TNS' (complete, native Trypanosoma cruzi trans-sialidase) (0.5 ml/animal, every 2 days) and sacrificed after 7, 9, and 12 days, and one rat receiving active TSC (140 microgram/day, five consecutive days) and killed after 7 days. Group B rats showed a clear improvement in symptoms, becoming more agile, requiring more ether to anesthetize them and becoming more difficult to restrain. The animal with otitis showed less equilibrium loss and the animal with severe weight loss gained weight. Since the lung was the most frequently injured organ, pulmonary alterations were examined using electron microscopy, confocal laser microscopy and immunohistochemistry. Histological sections showed that treated animals presented resolving pneumonitis after 7 d. After 9-12 days M. pulmonis were almost absent from alveoli and mean C.

pneumoniae positive cell numbers in alveoli had decreased, compatible with regression of C. pneumoniae **infection**. Results are given in the specification.

MECHANISM OF ACTION - Inhibits sialic acid mediated attachment of mycoplasma to cells.

USE - The compositions are useful to treat diseases associated with undesirable cell proliferation, such as atherosclerotic vascular disease and malignancy (both claimed), by reducing or preventing mycoplasma infection. They also useful to treat diseases associated with infection with other infectious organisms co-occurring with mycoplasma (and typically increasing the virulence of both pathogens), especially human immunodeficiency virus or chlamydia species. They can be used to treat such diseases in humans or other animals, and can be administered in conjunction with conventional agents e.g. anti-platelet or chemotherapeutic agents. (63 pages)

L12 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:261602 HCAPLUS

DOCUMENT NUMBER: 138:265609

TITLE: Use of neuraminidase inhibitors to

prevent flu-associated bacterial

infections

INVENTOR(S): McCullers, Jonathan A.

PATENT ASSIGNEE(S): St. Jude Children's Research Hospital, Inc., USA

SOURCE: PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.			KIN	KIND DATE			APPLICATION NO.						DATE					
1	WO 2003026567			A2 20030403			WO 2002-US29417						20020917					
1	WO 2003026567			A3	20040826													
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
								IN,										-
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
			PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,
			UA,	UG,	US,	UΖ,	VN,	ΥU,	ZA,	ZM,	ZW							
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
			KG,	ΚZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
			FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	SK,	TR,	BF,	ВJ,	CF,
			CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG			
US 2004248825			A1		2004	20041209 US 2004-809127							2	0040	325			
PRIOR	ΙΤΥ	APP	LN.	INFO	.:					• 1	US 2	001-	3256	15P	1	P 2	0010	927
										1	WO 2	002-1	JS29	417	1	A1 2	0020	917

AB The invention provides a novel use for neuraminidase inhibitors in chemoprophylactic and treatment methods for the prevention, attenuation, and treatment of bacterial infections that may occur in association with, or as a sequelae of, viral influenza. The prophylactic methods of the invention are particularly suitable for the prevention of secondary bacterial infections, such as, but not limited to, infections of the lower respiratory tract (e.g., pneumonia), middle ear infections (e.g., otitis media), and bacterial sinusitis. The treatment methods are suitable for use in protocols designed to attenuate or treat bacterial infections that occur concurrent with, or as a sequelae of, the flu.

(FILE 'HOME' ENTERED AT 14:05:18 ON 10 JAN 2005)

	FILE 'MEDL	INI	E, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS,
	LIFESCI' E	NTI	FRED AT 14:05:42 ON 10 JAN 2005
L1	73150	S	MYCOPLASMA
L2	63554	S	NEURAMINIDASE? OR SIALIDASE?
L3	224	S	L1 AND L2
L4	139	S	(INFECTION? OR DISEASE?) AND L3
L5	2620647	S	CANCER OR "HODGKIN'S" AND L4
L6	87	DI	JP REM L4 (52 DUPLICATES REMOVED)
L7	652	S	(CANCER OR "HODGKIN'S") AND L6
		E	HIGUCHI M/AU
L8	3027	S	E3
		E	SCHENKMAN S/AU
L9	344	S	E3
L10	3371	S	L8 OR L9
L11	2	S	L6 AND L10
L12	8	S	L6 AND (PREVENT OR INHIBIT)